



ADDENDUM #1 SECOND SEMI-ANNUAL PROGRESS REPORT

**FORMER CHLORATE PLANT SITE
1400 WEST NINTH STREET
BRUNSWICK, GLYNN COUNTY, GEORGIA
HSI SITE NUMBER 10619**

PREPARED FOR:

**BRUNSWICK CELLULOSE, INC.
1400 WEST NINTH STREET
BRUNSWICK, GEORGIA, 31520**

and

**GEORGIA-PACIFIC LLC
133 PEACHTREE STREET
ATLANTA, GEORGIA, 30303**

PREPARED BY:

**EARTHCON CONSULTANTS, INC.
1880 WEST OAK PARKWAY
BUILDING 100, SUITE 106
MARIETTA, GEORGIA, 30062
770-973-2100**

EarthCon Project No. 02.20060163

August 2013

TABLE OF CONTENTS

TABLE OF CONTENTS	i
PG CERTIFICATION	ii
1.0 INTRODUCTION	1
1.1 BIOSCREEN Model.....	1
1.2 Plume Modeling	1
2.0 BIOSCREEN INPUT DATA	2
2.1 Hydrogeology	2
2.2 Dispersion	3
2.3 Adsorption.....	3
2.4 Biodegradation.....	3
2.5 General.....	3
2.6 Source Data	3
3.0 DISCHARGE CALCULATION	4
4.0 MODELING INPUTS AND RESULTS.....	4
4.1 Former Chlorate Plant (FCP) Area.....	5
4.2 Trailer Parking Lot Area.....	6
4.3 Process Area.....	8
5.0 Sensitivity Analysis	16
6.0 References.....	18

TABLES

Revised Table 4	Summary of BIOSCREEN Model Results
Revised Table 5	Projected Maximum Constituent Concentrations in Turtle River

APPENDICES

Revised Appendix C Groundwater Modeling Results

PG CERTIFICATION

"I certify under penalty of law that this report and all attachments were prepared by me or under my direct supervision in accordance with the Voluntary Remediation Program Act (O.C.G.A. Section 12-8-101, et seq.). I am a professional engineer/professional geologist who is registered with the Georgia State Board of Registration for Professional Engineers and Land Surveyors/Georgia State Board of Registration for Professional Geologists and I have the necessary experience and am in charge of the investigation and remediation of this release of regulated substances.

The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."



Carol D. Northern, P.G.
Principal Geologist

Date: 8/27/13

Registration No. 793
State of Georgia



1.0 INTRODUCTION

The purpose of this Addendum is to provide additional information regarding the BIOSCREEN groundwater modeling. This Addendum will serve as a replacement for Section 3.4 (Modeling Results) of the Second Semi-Annual Progress Report (EarthCon 2013). Tables 4 and 5 and Appendix C of that report are superseded by Revised Tables 4 and 5 and Revised Appendix C within this Addendum.

1.1 BIOSCREEN Model

The BIOSCREEN Natural Attenuation software is a screening model based on the Domenico (1987) three dimensional analytical solute transport model. The solution to the Domenico model can actually be done by hand with a calculator. However, for this Site, BIOSCREEN was used as a "calculator" to replicate the Domenico model. For a differential equation that describes behavior over time (e.g., groundwater flow and solute transport equations), the numerical method starts with the initial values of the variables, and then uses the equations to approximate the changes in these variables over a very brief time period. This approximation is the calibration process (i.e., subtle changes in initial values until an adequate solution is achieved).

BIOSCREEN is a conservative, screening model. It is typically used with unlikely high starting values (highest historical values) to determine the potential, using conservative assumptions, of the observed concentrations resulting in a "plume" that would reach a defined location (e.g., receptor). Analysis using a numerical model would be necessary only if the screening model showed potential for exceeding concentrations at the defined receptor location.

In BIOSCREEN, the Domenico solution has been adapted to provide three different model types representing i) transport with no decay, ii) transport with first-order decay, and iii) transport with "instantaneous" biodegradation. The first model type is applicable to any conservative solute such as metals. For this Site, transport with no decay was evaluated for constituents because it provides the most conservative results.

1.2 Plume Modeling

The BIOSCREEN model was used to evaluate constituent migration to the down gradient point of exposure (POE). As shown on Figure 1 of the Second Semi-Annual Progress Report (EarthCon 2013), an area of higher water level elevations extends through the center of the Mill facility.

Constituents present on the east side of the Site would potentially flow towards the aeration stabilization basin (ASB) or to the eastern property boundary while those present on the west side of the Site would potentially flow towards the Turtle River.

For purposes of the model, a groundwater plume was developed for each regulated substance present above applicable RRS in the FCP Area, the Trailer Parking Lot Area, and the Process Area based on the maximum concentration detected in that area during the four quarterly sampling events. Since the delineated site contamination is greater than one thousand feet from the property line in all directions, the assumed down gradient POE for constituents present east of the center high is the eastern property boundary. When a plume extended on both sides of the center high, the plume was modeled towards both the Turtle River to the west and the eastern property boundary.

2.0 BIOSCREEN INPUT DATA

BIOSCREEN requires multiple variables for the Site and each constituent be input into a pre-formatted excel document. Each variable is described below. A sensitivity analysis is presented in Section 5.0 of this Addendum.

2.1 Hydrogeology

As described in Section 4.3 of the Voluntary Remediation Plan (EarthCon 2011), an average hydraulic conductivity value of 1.53×10^{-3} centimeters per second (cm/s) or 4.33 feet per day was calculated for the FCP area and the estimated effective porosity of the Site soils is 30 percent. The hydraulic gradient was calculated based on depth to groundwater within the FCP area. Hydraulic gradient calculations are shown on Figure C-0 in Revised Appendix C. The three point method was used to calculate hydraulic gradient between MW-10, MW-11 and MW-13 using the groundwater elevations collected during the May 2012, August 2012, November 2012 and February 2013 quarterly sampling events. The hydraulic gradients for those events were 0.0058, 0.0064, 0.0062 and 0.0068 ft/ft, respectively. The average hydraulic gradient is 0.0063 ft/ft. The seepage velocity, calculated by multiplying hydraulic conductivity by hydraulic gradient and dividing by effective porosity, is 33.2 feet/year.

2.2 Dispersion

Longitudinal, transverse and vertical dispersivity are calculated as a relationship to plume length. Figures for each plume are provided in Revised Appendix C.

2.3 Adsorption

The soil retardation factor is calculated from the soil bulk density, partition coefficient (K_{oc}) and fraction organic carbon (foc). A value of 1.7 is frequently used as a default for soil bulk density (BIOSCREEN 1996). For K_{oc} and K_d , the most conservative or lowest value found in 1) the EPA Region 9 Regional Screening Level Chemical Specific Parameter table (Nov 2012); 2) the Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites (EPA 2002); or 3) the Superfund Chemical Data Matrix (SDCM, March 2012), was used. BIOSCREEN does not allow for direct input of K_d , therefore when only a K_d value is available, K_{oc} is set equal to K_d and foc is set equal to 1 ($K_d = K_{oc} * foc$). K_{oc} and K_d values for each regulated substance are discussed in more detail in the following sections. An assumed value of 0.002 was used for foc unless otherwise noted.

2.4 Biodegradation

The first order decay coefficient is related to the solute's half-life. For this Site, the no degradation model is being evaluated to provide the most conservative results. Half-life values have no influence on the final outcome of the no degradation model. However, these values were still input as a reference. Metals do not decay so an assumed infinite half-life of 10,000 years was used.

2.5 General

The modeled area length was input as the distance from the maximum concentration to the POE. This input is used as the horizontal axis variable for the BIOSCREEN graphs. Area width was entered as an approximate width of the plume. It is noted that area width has no bearing on the modeled centerline transport distance of a dissolved solute in the Domenico (1987) model. The modeled plume for each regulated substance in each area is shown on the figures in Revised Appendix C.

2.6 Source Data

The source data was approximated based on the plumes generated using the highest historical concentrations. The respective plumes are shown on the figures provided in Revised Appendix C. The source thickness has no bearing for these model situations because the Domenico (1987) model

assumes a vertical plane (single layer). BIOSCREEN expands the simple one source approach by allowing up to five source zones with different concentrations to account for spatial 2-dimensional variations in the source area (BIOSCREEN 1996). For “plumes” that are defined by only one well, an assumed width of 100 feet was used as a conservative estimate.

3.0 DISCHARGE CALCULATION

Discharge calculations were conducted for each constituent present in the Trailer Parking Lot Area and the Process Area to verify that the constituent concentrations in the Turtle River would not exceed In Stream Water Quality Standards (ISWQS) published by Georgia EPD. Because the Turtle River is tidal, USGS flow data is not available. At the recommendation of Ms. Liz Booth of the Georgia EPD, Turtle River flow data was obtained from Mr. Brian Watson of TetraTech (Revised Appendix C). Based on the data provided by Mr. Watson, the maximum flow rate in the Turtle River from January 1, 1998 to December 31, 2007 was 6,750 cubic feet per second (cfs) while the average flow rate was calculated to be 45 cfs.

For each detected constituent, the maximum concentration detected during the four quarterly sampling events was assumed to discharge directly into the Turtle River. Plume lengths were determined from the figures provided in Revised Appendix C. For constituents detected at only one location, a plume length of 100 feet was assumed. The vertical thickness of each contaminated plume was assumed to be 25 feet. Results of the discharge calculations are summarized on Revised Table 5 and are discussed in further detail in the following sections and in Revised Appendix C.

4.0 MODELING INPUTS AND RESULTS

A summary of the results from the BIOSCREEN modeling is shown on Revised Table 4. Figures for the plumes are provided in Revised Appendix C. Modeling results for individual constituents within each source area are summarized below.

4.1 Former Chlorate Plant (FCP) Area

4.1.1 Chromium

During the quarterly sampling events, chromium was detected at least once above the 0.1 mg/L delineation criteria in each well sampled as shown below. Based on the potentiometric maps, chromium was modeled to reach the eastern property boundary (EPB).

Delineation Criteria = 0.1 mg/L	May 2012	August 2012	November 2012	February 2013
CPW-1	0.72	0.99	<u>1.2</u>	0.7
CPW-3	0.45	0.36	<u>0.87</u>	0.57
CPW-4	0.11 J	<0.1	0.017 J	<u>0.13</u>
CPW-7	<u>26</u>	19	<u>26</u>	15
CPW-10	0.24	<u>0.25</u>	0.16 J	<0.1
CPW-13	0.30	<u>0.47</u>	0.2 J	0.11
CPW-14	0.057 J	<0.1	0.084 J	<u>0.14 J</u>

Input values are shown below:

K_d	19 L/kg	Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites (EPA 2002)
K_{oc}	19 L/kg	$K_d=K_{oc} * foc$; foc assumed as 1 in this situation.
Half-Life	10,000 years	Infinite half-life assumed for metals.
Distance from Max Conc to EPB	2,300 feet	Max Conc. - 26 mg/L in CPW-7
Plume Width	400 feet	

As shown on Figure C-1, the range and location of chromium values make it hard to estimate a plume; however the next closest well and next highest concentration (CPW-1, 1.2 mg/L) is located 50 feet from CPW-7. As a conservative value, one hundred was used as the source zone width for the highest concentration value.

Chromium in the FCP area will likely flow into the ASB and be released from the Site under the NPDES permit. However, if it was to bypass the ASB the chromium would require more than 5,000 years to reach the eastern property boundary. This is primarily based on the very high soil/groundwater partition coefficient for chromium. Since groundwater in the FCP does not flow into the Turtle River, dilution calculations were not evaluated.

4.2 Trailer Parking Lot Area

The regulated substances arsenic, chromium, and nickel are present in the Trailer Parking Lot. Groundwater flow in the Trailer Parking Lot area is to the west toward the Turtle River. Therefore, constituents present in the Trailer Parking Lot do not impact the eastern property boundary POE.

4.2.1 Arsenic

Arsenic was detected in three of the four wells sampled during the quarterly sampling events as shown below. During the most recent sampling event, arsenic was detected in only one well (LOC06B-MW-01) at a concentration of 0.019 mg/L.

Delineation Criteria = 0.01 mg/L	May 2012	August 2012	November 2012	February 2013
LOC06B-MW-01	0.016	0.025	0.039	0.019
LOC6B-MW-01D	0.021	0.037	0.039	<0.01
LOC6B-MW-02	0.017	0.013	0.013	<0.01

Input values are shown below:

K_d	29 L/kg	Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites (EPA 2002)
K_{oc}	29 L/kg	$K_d = K_{oc} * foc$; foc assumed as 1 in this situation.
Half-Life	10,000 years	Infinite half-life assumed for metals.
Distance from Max Conc to TR	200 feet	Max Conc. – 0.039 mg/L in LOC06B-MW-01
Plume Width	650 feet	

The source data widths and concentrations for this constituent are based on the plume shown on Figure C-2. Based on the model results, arsenic will require more than 500 years to reach the Turtle River.

The maximum concentration of arsenic (0.039 mg/L) is only slightly above the ISWQS of 0.036 mg/L. At average flow rates the maximum concentration released into the Turtle River would be significantly below the ISWQS as shown on Revised Table 5. Since arsenic was detected at only one location in February 2013 at a concentration below the ISWQS, arsenic will not adversely impact the Turtle River.

4.2.2 Chromium

Chromium was detected in three of the four wells sampled during the quarterly sampling events as shown below. During the February 2013 sampling, chromium was not detected in any of the wells.

Delineation Criteria = 0.1 mg/L	May 2012	August 2012	November 2012	February 2013
LOC06B-MW-01	<0. 1	0.12	<u>0.17</u>	<0.1
LOC06B-MW-01D	<0. 1	0.17	<u>0.19</u>	<0.1
LOC06B-MW-02	0.12	0.21	0.12	<0.1

Input values are shown below:

K _d	19 L/kg	Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites (EPA 2002)
K _{oc}	19 L/kg	K _d =K _{oc} *foc; foc assumed as 1 in this situation.
Half-Life	10,000 years	Infinite half-life assumed for metals.
Distance from Max Conc to TR	260 feet	Max Conc. – 0.21 mg/L in LOC06B-MW-02
Plume Width	650 feet	

The source data widths and concentrations for chromium are based on the plume shown on Figure C-3. Based on the model results, chromium will require more than 400 years to reach the Turtle River. This plume is very conservative considering there were no detections of chromium during the most recent sampling event. As shown on Revised Table 5, at average flow rates the dilution concentration for chromium is below the ISWQS. Therefore, chromium in this area will not adversely impact the Turtle River.

4.2.3 Nickel

Nickel was detected in three of the four wells sampled during the quarterly sampling events as shown below. During the February 2013 sampling, nickel was detected in only one well (LOC06B-MW-01) at a concentration of 0.12 mg/L, which is the lowest concentration ever detected at that well.

Delineation Criteria = 0.1 mg/L	May 2012	August 2012	November 2012	February 2013
LOC06B-MW-01	0.13	0.22	<u>0.31</u>	0.12
LOC06B-MW-01D	0.12	0.26	0.25	<0.1
LOC06B-MW-02	0.14	0.18	0.12	<0.1

Input values are shown below:

K_d	65 L/kg	Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites (EPA 2002)
K_{oc}	65 L/kg	$K_d = K_{oc} * foc$; foc assumed as 1 in this situation.
Half-Life	10,000 years	Infinite half-life assumed for metals.
Distance from Max Conc to TR	200 feet	Max Conc. – 0.31 mg/L in LOC06B-MW-01
Plume Width	600 feet	

The source data widths and concentrations for this constituent are based on the plume shown on Figure C-4. Based on the model results, nickel will require more than 900 years to reach the Turtle River.

At average flow rates, the maximum river concentration for nickel (0.030 mg/L) is above the ISWQS (0.0083 mg/L). At maximum flow rate, the nickel concentration (0.00020 mg/L) is well below the ISWQS. Based on the BIOSCREEN model results, with no degradation, the travel time for nickel to reach the Turtle River is greater than 900 years. Additionally, nickel was detected at only one location during the February 2013 sampling event. Therefore, nickel will not adversely impact the Turtle River.

4.3 Process Area

The regulated substances benzene, 4-methylphenol, naphthalene, phenanthrene, antimony, arsenic, chromium, lead, mercury and nickel were evaluated for the Process Area. Groundwater within the Process Area flows both east and west as shown on Figure 1 in the Second Semi-Annual Progress Report (EarthCon 2013). However, only four constituents (naphthalene, phenanthrene, chromium, and nickel) are present in the Process Area at locations with groundwater flow toward the eastern property boundary.

4.3.1 Benzene

Benzene was only detected at one well (LOC11B-MW-02D) at concentrations ranging from an estimated value of 0.010 mg/L to 0.020 mg/L (Figure C-5).

Input values are shown below:

K_{oc}	58.9 L/kg	Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites (EPA 2002)
----------	-----------	---

Half-Life	0.657 years	240 days. http://www.dtsc.ca.gov/AssessingRisk/upload/benzene.pdf
Distance from Max Conc to TR	700 feet	Max Conc. – 0.02 mg/L in LOC11B-MW-02D
Plume & Source Zone Width	100 feet	100 feet assumed for plumes with only one detection.

Based on the no degradation model, benzene will require more than 25 years to reach the Turtle River.

Based on its degradation rate, benzene will not travel more than 200 feet in 25 years. Additionally, the highest benzene concentration is already below the ISWQS for the Turtle River. Therefore, benzene will not adversely impact the Turtle River.

4.3.2 4-methylphenol

4-methylphenol (p-cresol) was detected at four of the nine wells during the quarterly sampling events as shown below. The highest concentration of 4-methylphenol (0.17 mg/L) was detected in LOC11B-MW-02 during the May 2012 sampling; however, it was not detected in the three subsequent sampling events.

Delineation Criteria = detection limit	May 2012	August 2012	November 2012	February 2013
LOC11D-MW-01	<0.01	<0.0095	<0.0099	0.028
LOC11B-MW-02	0.17J	<0.47	<0.063	<0.0096
LOC11B-MW-02D	<0.025	<0.47	<0.12	0.16
LOC11B-MW-05	0.013	0.016	0.015	0.024

Input values are shown below:

K _{oc}	300.4 L/kg	EPA Region 9 Regional Screening Level Chemical Specific Parameter table (Nov 2012)
Half-Life	0.025 years	9 days. http://www.atsdr.cdc.gov/ToxProfiles/tp34.pdf
Distance from Max Conc to TR	700 feet	Max Conc. – 0.17 mg/L in LOC11B-MW-02
Plume Width	400 feet	

The source data widths and concentrations for this constituent are based on the plume shown on Figure C-6. Based on the model results, 4-methylphenol will require more than 55 years to reach the Turtle River. Based on its degradation rate, 4- methylphenol will not travel more than 100 feet in

55 years. Additionally, there is no ISWQS for 4-methylphenol. Therefore, 4-methylphenol will not adversely impact the Turtle River.

4.3.3 Naphthalene

Naphthalene was detected at six of the nine wells during the quarterly sampling events as shown below. The naphthalene plume was modeled to flow towards both the eastern property boundary (EPB) and the Turtle River (TR).

Delineation Criteria = 0.1 mg/L	May 2012	August 2012	November 2012	February 2013
LOC11D-MW-01	0.016	0.01	0.13	0.45
LOC11B-MW-02	3.5	1.7	1.9	1.5
LOC11B-MW-02D	1.4	3	4.4	4.8
LOC11D-MW-03	<0.0098	0.048	0.028	0.067
LOC11B-MW-05	0.085	0.083	0.099	0.11
LOC11-MW-07	0.31	0.26	0.24	0.31

Input values are shown below:

K _{oc}	1,544 L/kg	EPA Region 9 Regional Screening Level Chemical Specific Parameter table (Nov 2012)
Half-Life	1.51 years	550 days. http://www.atsdr.cdc.gov/ToxProfiles/tp67-c6.pdf
Distance from Max Conc to EPB	2,700 feet	Max Conc. – 4.8 mg/L in LOC11B-MW-02D
Plume Width(EPB)	1,200 feet	
Distance from Max Conc to TR	700 feet	Max Conc. – 4.8 mg/L in LOC11B-MW-02D
Plume Width (TR)	1,100 feet	

A slight increase in naphthalene concentrations has been noted for some wells in the Process Area. Conservative input values such as maximum detected concentration throughout the modeled plume and transport with no decay were used to address this increase. The source data widths and concentrations for this constituent are based on the plume shown on Figure C-7. Based on the model results, naphthalene would require more than 900 years to reach the eastern property boundary and more than 160 years to reach the Turtle River. Based on its degradation rate, naphthalene will not travel more than 100 feet in 160 years. Naphthalene does not have an ISWQS

and will not reach the Turtle River for more than 160 years; therefore, naphthalene will not adversely impact the Turtle River.

4.3.4 Phenanthrene

Phenanthrene was detected in five of the nine wells during the quarterly sampling events, as shown below. Phenanthrene was modeled to flow towards both the eastern property boundary and the Turtle River.

Delineation Criteria = detection limit	May 2012	August 2012	November 2012	February 2013
LOC11D-MW-01	<0.01	<0.0095	<0.0099	0.025
LOC11B-MW-02	0.17 J	<0.47	0.28 J	0.12
LOC11B-MW-02D	0.15 J	<0.47	0.092 J	0.14
LOC11D-MW-03	<0.0098	0.03	0.016	0.032
LOC11-MW-07	0.054	<0.049	0.041	0.049

Input values are shown below:

K_d	3,700 L/kg	Superfund Chemical Data Matrix (SDCM, March 2012)
K_{oc}	3,700 L/kg	$K_d = K_{oc} * foc$; foc assumed as 1 in this situation.
Half-Life	0.547 years	<200 days. USEPA, 2000, Bioaccumulation Testing and Interpretation for the Purpose of Sediment Quality Assessment, Status and Needs, U.S. Environmental Protection Agency, EPA-823-R-00-001, February 2000.
Distance from Max Conc to EPB	2,700 feet	Max Conc. – 0.28 mg/L in LOC11B-MW-02
Plume Width (EPB)	950 feet	
Distance from Max Conc to TR	700 feet	Max Conc. – 0.28 mg/L in LOC11B-MW-02
Plume Width (TR)	800 feet	

The source data widths and concentrations for this constituent are based on the plume shown on Figure C-8. Based on the model results, Phenanthrene will require more than 10,000 years to reach either the eastern property boundary or the Turtle River. This is attributed to its large partition coefficient. Phenanthrene does not have an ISWQS and will not reach the Turtle River for more than 10,000 years; therefore, it will not adversely impact the Turtle River.

4.3.5 Antimony

Antimony was detected in two of the nine wells during the quarterly sampling events as shown below. The maximum concentration was detected in May 2012.

Delineation Criteria = 0.006 mg/L	May 2012	August 2012	November 2012	February 2013
LOC11B-MW-02	0.036	0.026	0.033	0.014
LOC11B-MW-02D	0.0069	<0.006	<0.006	0.0047 J

Input values are shown below:

K_d	45 L/kg	Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites (EPA 2002)
K_{oc}	45 L/kg	$K_d = K_{oc} * foc$; foc assumed as 1 in this situation.
Half-Life	10,000 years	Infinite half-life assumed for metals.
Distance from Max Conc to TR	700 feet	Max Conc. – 0.036 mg/L in LOC11B-MW-02
Plume & Source Zone Width	100 feet	100 feet assumed for plumes with only one detection.

The plume area for antimony is shown on Figure C-9. Based on the model results, antimony will require more than 4,000 years to reach the Turtle River. Since the detected concentrations of antimony are far below the ISWQS (4.308 mg/L), antimony will not adversely impact the Turtle River.

4.3.6 Arsenic

Arsenic was detected in two of the nine wells during the quarterly sampling events as shown below.

Delineation Criteria = 0.01 mg/L	May 2012	August 2012	November 2012	February 2013
LOC11B-MW-02	0.018	0.027	0.013	<0.01
LOC11B-MW-02D	0.033	0.025	0.019	0.02

Input values are shown below:

K_d	29 L/kg	Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites (EPA 2002)
K_{oc}	29 L/kg	$K_d = K_{oc} * foc$; foc assumed as 1 in this situation.
Half-Life	10,000 years	Infinite half-life assumed for metals.

Distance from Max Conc to TR	700 feet	Max Conc. – 0.033 in LOC11B-MW-02D
Plume Width	150 feet	

The source data widths and concentrations for this constituent are based on the plume shown on Figure C-10. Based on the model results, arsenic will require more than 2,500 years to reach the Turtle River. The maximum concentration of arsenic is already below the ISWQS; therefore, arsenic will not adversely impact the Turtle River.

4.3.7 Chromium

Chromium was detected in three of the nine wells during the quarterly sampling events as shown below. Chromium was modeled to flow towards both the eastern property boundary and the Turtle River.

Delineation Criteria = 0.1 mg/L	May 2012	August 2012	November 2012	February 2013
LOC11B-MW-02D	0.28	0.32	0.28	0.29
LOC11B-MW-05	0.11	<0.1	<0.1	<0.1
LOC11-MW-07	0.12	0.15	0.14	0.13

Input values are shown below:

K_d	19 L/kg	Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites (EPA 2002)
K_{oc}	19 L/kg	$K_d=K_{oc} * foc$; foc assumed as 1 in this situation.
Half-Life	10,000 years	Infinite half-life assumed for metals.
Distance from Max Conc to EPB	2,700 feet	Max Conc. – 0.32 mg/L in LOC11B-MW-02D
Plume Width (EPB)	900 feet	
Distance from Max Conc to TR	700 feet	Max Conc. – 0.32 mg/L in LOC11B-MW-02D
Plume Width (TR)	900 feet	

The source data widths and concentrations for this constituent are based on the plume shown on Figure C-11. Based on the model results, chromium will require more than 6,000 years to reach the eastern property boundary and more than 1,200 years to reach the Turtle River. The dilution

concentration for chromium at the average flow rate of 45 cfs is below its ISWQS as shown on Revised Table 5. Therefore, chromium will not adversely impact the Turtle River.

4.3.8 Lead

Lead was detected only once during the quarterly sampling events. This detection was in MW-11B-02D at an estimated concentration of 0.0023 mg/L during the February 2013 sampling event (Figure C-12).

Input values are shown below:

K_d	900 L/kg	Superfund Chemical Data Matrix (SDCM, March 2012)
K_{oc}	900 L/kg	$K_d=K_{oc} * foc$; foc assumed as 1 in this situation.
Half-Life	10,000 years	Infinite half-life assumed for metals.
Distance from Max Conc to TR	700 feet	Max Conc. – 0.0023 mg/L in MW-11B-02D
Plume & Source Zone Width	100 feet	100 feet assumed for plumes with only one detection.

Based on the model results, lead will require more than 10,000 years to reach the Turtle River. Because its maximum detected concentration is below the ISWQS, lead will not adversely impact the Turtle River.

4.3.9 Mercury

Mercury was detected in only one well during the quarterly sampling events (Figure C-13). As shown below, mercury was not detected during the last two sampling events.

Delineation Criteria = 0.002 mg/L	May 2012	August 2012	November 2012	February 2013
LOC11D-MW-01	0.0028	0.002 J	<0.002	<0.002

Input values are shown below:

K_d	52 L/kg	Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites (EPA 2002)
K_{oc}	52 L/kg	$K_d=K_{oc} * foc$; foc assumed as 1 in this situation.
Half-Life	10,000 years	Infinite half-life assumed for metals.

Distance from Max Conc to TR	700 feet	Max Conc. – 0.0028 in LOC11D-MW-01
Plume & Source Zone Width	100 feet	100 feet assumed for plumes with only one detection.

Based on the model results, mercury will require more than 4,500 years to reach Turtle River. As shown on Revised Table 5, using the conservative assumption that the highest detected concentration of mercury would enter the Turtle River with an assumed plume length of 100 feet, the maximum river concentration (0.000046 mg/L) would be above the ISWQS (0.000025 mg/L) at average flow rate. At maximum flow rate, mercury would be well below the ISWQS (0.00000030 mg/L). Since mercury was detected at only one location and will require more than 4,500 years to reach the Turtle River, mercury in Process Area groundwater will not adversely impact the Turtle River.

4.3.10 Nickel

Nickel was detected in four of the nine wells during the May 2012 sampling event but has been detected only once in subsequent sampling events as shown below. Nickel was modeled to flow towards both the eastern property boundary and the Turtle River.

Delineation Criteria = 0.1 mg/L	May 2012	August 2012	November 2012	February 2013
LOC11B-MW-02	0.028	<0.1	<0.1	<0.1
LOC11B-MW-02D	0.081	<0.1	<0.1	0.08 J
LOC11B-MW-05	0.039	<0.1	<0.1	<0.1
LOC11-MW-08	0.028	<0.1	<0.1	<0.1

Input values are shown below:

K _d	65 L/kg	Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites (EPA 2002)
K _{oc}	65 L/kg	K _d =K _{oc} *foc; foc assumed as 1 in this situation.
Half-Life	10,000 years	Infinite half-life assumed for metals.
Distance from Max Conc to EPB	2,700 feet	Max Conc. – 0.081 mg/L in LOC11B-MW-02D
Plume Width (EPB)	900 feet	
Distance from Max Conc to TR	700 feet	Max Conc. – 0.081 mg/L in LOC11B-MW-02D
Plume Width (TR)	900 feet	

The source data widths and concentrations for this constituent are based on the plume shown on Figure C-14. Based on the model results, nickel will require more than 10,000 years to reach the eastern property boundary and more than 4,500 years to reach the Turtle River. The dilution concentration for nickel at an average flow rate of 45 cfs, (0.0119 mg/L) is slightly above its ISWQS (0.0083 mg/L) as shown on Revised Table 5. However, the dilution concentration at maximum river flow rate (0.000079) is well below the ISWQS. Therefore, nickel will not adversely impact the Turtle River.

5.0 Sensitivity Analysis

A sensitivity analysis was conducted to evaluate how changes to one parameter would affect the time until the POE was reached. Benzene was used for the sensitivity model because it has the shortest travel time to the POE. The sensitivity test was run the same way the previous models were run, by using time as a variable to achieve 0.0000 mg/L concentration at 700 feet. A summary of the sensitivity analysis is shown below.

Sensitive Parameter	Original Parameter Value	New Parameter Value	Comment	Time till POE 700 feet away is reached	Percent of Original Value
Original Values	--	--	--	> 25 years	
Hydraulic Conductivity	0.00153	0.00115	25% lower	> 32 years	128%
Hydraulic Conductivity	0.00153	0.00191	25% higher	> 20 years	80%
Hydraulic Gradient	0.0063	0.00473	25% lower	> 32 years	128%
Hydraulic Gradient	0.0063	0.00788	25% higher	> 20 years	80%
Estimated Plume Length	50	5	90% lower	> 32 years	128%
Estimated Plume Length	50	100	100% higher	> 23 years	92%
Partition Coefficient	58.9	15	75% lower	> 18 years	72%
Partition Coefficient	58.9	103	75% higher	> 33 years	132%
Fraction Organic Carbon	0.002	0.001	50% lower	> 20 years	80%
Fraction Organic Carbon	0.002	0.003	50% higher	> 31 years	124%
Source Zone Width	100	10	90% lower	> 27 years	108%
Source Zone Width	100	1000	900% higher	> 25 years	100%
Hydraulic Conductivity	0.00153	0.00191	25% higher	> 11 years	44%
Hydraulic Gradient	0.0063	0.00788	25% higher		
Partition Coefficient	58.9	15	75% lower		
Fraction Organic Carbon	0.002	0.001	50% lower		

As observed above, the parameters with the greatest impact on the model are the hydrogeology variables (gradient, conductivity) and adsorption variables (partition coefficient, foc). As part of the sensitivity analysis, one test was run with extra conservative values. Even after these highly conservative parameters were combined, there was only a 56% reduction to the time it would take

benzene to reach the POE. Since the detected benzene concentration is already below ISWQS and benzene would likely degrade, no adverse impacts are expected to the Turtle River. Similarly, with a 56% reduction, the next mobile constituent, 4-methyphenol will require more than 24 years to reach the Turtle River. Since 4-methyphenol does not have an ISWQS and would also likely degrade, no adverse impacts are expected to the Turtle River.



6.0 References

EarthCon Consultants, Inc. (EarthCon) *Voluntary Remediation Plan, Former Chlorate Plant Site, Brunswick, Glynn County, Georgia, HSI No. 10619*. October 5, 2011.

EarthCon Consultants, Inc. (EarthCon) *Second Semi-Annual Progress Report, Former Chlorate Plant Site, Brunswick, Glynn County, Georgia, HSI No. 10619*. March 22, 2013.

USEPA. 2009. BIOSCREEN Natural Attenuation Decision Support System.

USEPA. 2012. Region 9 Regional Screening Level, Chemical Specific Parameter Table.

USEPA. 2002. Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites.

USEPA. 2012. Superfund Chemical Data Matrix

TABLES

REVISED

Table 4: Summary of BIOSCREEN Model Results

Location	Regulated Substance	Point of Exposure (POE)	Maximum Detected Concentration ¹ (mg/L)	Distance from Maximum Concentration to POE (ft)	Time Until Constituent Reaches POE ² (yrs)
FCP Area	Chromium	Eastern Property Boundary	26	2,300	>5,000
Trailer Parking Lot Area	Arsenic	Turtle River	0.039	200	>500
	Chromium	Turtle River	0.21	260	>400
	Nickel	Turtle River	0.31	200	>900
Process Area	Benzene	Turtle River	0.02J	700	>25
	4-methylphenol	Turtle River	0.17J	700	>55
	Naphthalene	Eastern Property Boundary	4.8	2,700	>900
		Turtle River	4.8	700	>160
	Phenanthrene	Eastern Property Boundary	0.28J	2,700	>10,000
		Turtle River	0.28J	700	>10,000
	Antimony	Turtle River	0.036	700	>4,000
	Arsenic	Turtle River	0.033	700	>2,500
	Chromium	Eastern Property Boundary	0.32	2,700	>6,000
		Turtle River	0.32	700	>1,200
	Lead	Turtle River	0.0023J	700	>10,000
	Mercury	Turtle River	0.0028	700	>4,500
	Nickel	Eastern Property Boundary	0.081	2,700	>10,000
		Turtle River	0.081	700	>4,500

Notes:

¹Maximum concentration detected during the quarterly sampling events

²Based on "No Degradation" curve within BIOSCREEN.

FCP - Former Chlorate Plant

Prepared by: SLS 5/13/13

Checked by: CDN 6/7/13

REVISED

Table 5: Projected Maximum Constituent Concentrations in Turtle River

Location	Regulated Substance	Maximum Plume Width (ft)	Maximum Detected Concentration ¹ (mg/L)	Maximum River Concentration based on Average Flow Rate (mg/L)	Maximum River Concentration based on Max Flow Rate (mg/L)	In Stream Water Quality Standard ² (mg/L)
Trailer Parking Lot Area	Arsenic	650	0.039	0.0041	0.000028	0.036
	Chromium	650	0.21	0.022	0.000149	0.05
	Nickel	600	0.31	0.030	0.00020	0.0083
Process Area	Chromium	900	0.32	0.047	0.00031	0.05
	Mercury	100	0.0028	0.000046	0.00000030	0.000025
	Nickel	900	0.081	0.0119	0.000079	0.0083

Notes:

¹Maximum concentration detected during the quarterly sampling events

²Source: http://www.gaepd.org/Files_PDF/plans/chatt/chatt-b.pdf

Average flow rate = 45 cubic feet per second (cfs); maximum flow rate = 6,750 cfs

Average flow rate - calculated from flow rate data from January 1, 1998 to December 31, 2007 provided by Tetra Tech (Correspondence records, Appendix C)

Prepared by: SLS 6/10/13

Checked by: CDN 6/10/13

APPENDICES

REVISED APPENDIX C
GROUNDWATER MODELING RESULTS

REVISED

Appendix C - Table 1: Input Coefficients for BIOSCREEN Model

Coefficient Value Source:

Hydraulic Conductivity, K	1.53E-03	VRP report
Hydraulic Gradient, i	0.0063	quarterly sampling events
Effective porosity, n	0.3	VRP report
Plume Length	variable	based on constituent
Soil Bulk Density, rho	1.7	BIOSCREEN default value
Partition Coefficient, Kd	variable	based on constituent
Fractional Organic Carbon, foc	0.002	default value
Half-Life	variable	based on constituent

Chemicals	Half-Life (year)	Kd (L/kg)	foc	Koc (L/kg)	Delineation Criteria (mg/L)	Approved RRS (mg/L)
Benzene	240 days	0.657	--	0.002	58.9	0.00872
4-methylphenol	9 days	0.025	--	0.002	300.4	0.1
Naphthalene	550 days	1.51	--	0.002	1544	0.02
Phenanthrene	<200 days	0.547	3700	1	3700	0.1
Antimony [Sb]		10,000	45	1	45	0.006
Arsenic [As]		10,000	29	1	29	0.01
Chromium [Cr+6]		10,000	19	1	19	0.1
Lead [Pb]		10,000	900	1	900	0.015
Mercury [Hg]		10,000	52	1	52	0.002
Nickel [Ni]		10,000	65	1	65	0.1

Notes:

- 1) The BIOSCREEN model does not allow for direct input of Kd; therefore, when a Kd value is provided, Koc is set equal to Kd and foc is set equal to 1. (Kd=Koc*foc)
- 2) Default values were obtained from Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites (EPA 2002) unless otherwise noted.
- 3) Kd values for phenanthrene and lead are from the Superfund Chemical Data Matrix (SDCM, March 2012)
- 4) Koc value for naphthalene is from Region 9's Regional Screening Level Chemical Specific Parameter Table (Nov 2012)
- 5) Half-life for metals was assumed to be 10,000 because of the low rate of degradation in metals.

References:

US EPA. (1996) "BIOSCREEN, Natural Attenuation Decision Support System – User's Manual, Version 1.3." Publication No. EPA/600/R-96/087. August 1996
 VRP Report - Voluntary Remediation Plan. EarthCon Consultants. October 2011.

Half Life References:

benzene	http://www.dtsc.ca.gov/AssessingRisk/Upload/benzene.pdf	1/2 life in Ground-Water Zone Soil
4-methylphenol	http://www.atsdr.cdc.gov/toxprofiles/tp34-c6.pdf	
naphthalene	http://www.atsdr.cdc.gov/ToxProfiles/tp67-c6.pdf	
Phenanthrene	USEPA, 2000, Bioaccumulation Testing and Interpretation for the Purpose of Sediment Quality Assessment, Status and Needs, U.S. Environmental Protection Agency, EPA-823-R-00-001, February 2000.	

REVISED

Appendix C - Table 2: Discharge Evaluation for Turtle River

Coefficient	Value	Source:
Hydraulic Conductivity, K	1.53E-03	VRP report
Hydraulic Gradient, i	0.0063	VRP report
Effective porosity, n	0.3	VRP report

PROCESS AREA						TRAILER PARKING LOT AREA					
Dilution Calculations						Dilution Calculations					
Constituents	Maximum Plume Width (ft)	Max Detected Concentration ¹ (mg/L)	Max. River Concentration with Average Flow Rate (mg/L)	Max. River Concentration with Max Flow Rate (mg/L)	In Stream Water Quality Standard ² (mg/L)	Constituents	Maximum Plume Width (ft)	Max Detected Concentration ¹ (mg/L)	Max. River Concentration with Average Flow Rate (mg/L)	Max. River Concentration with Max Flow Rate (mg/L)	In Stream Water Quality Standard ² (mg/L)
Benzene	100	0.02	NA ³	NA ³	0.07128	Arsenic [As]	650	0.039	0.0041	0.00003	0.036
Antimony [Sb]	150	0.036	NA ³	NA ³	4.308	Chromium [Cr]	650	0.21	0.0223	0.0001	0.05
Arsenic [As]	150	0.033	NA ³	NA ³	0.036	Nickel [Ni]	600	0.31	0.0304	0.0002	0.0083
Chromium [Cr]	900	0.32	0.047	0.00031	0.05						
Lead [Pb]	100	0.0023	NA ³	NA ³	0.0056						
Mercury [Hg]	100	0.0028	0.000046	0.00000030	0.000025						
Nickel [Ni]	900	0.081	0.0119	0.000079	0.0083						
4-methylphenol (p-cresol)	350	0.17	0.010	--	--						
Naphthalene	1100	4.8	0.86	--	--						
Phenanthrene	800	0.28	0.04	--	--						

¹ Max concentration detected during the quarterly sampling events

² Source: http://www.gaepd.org/Files_PDF/plans/chatt/chatt-b.pdf

³ Maximum Concentration Detected is less than In Stream Water Quality Standard

Average flow rate = 45 cubic feet per second (cfs); maximum flow rate = 6,750 cfs

Average flow rate - calculated from flow rate data from January 1, 1998 to December 31, 2007 provided by Tetra Tech (Correspondence records, Appendix C)

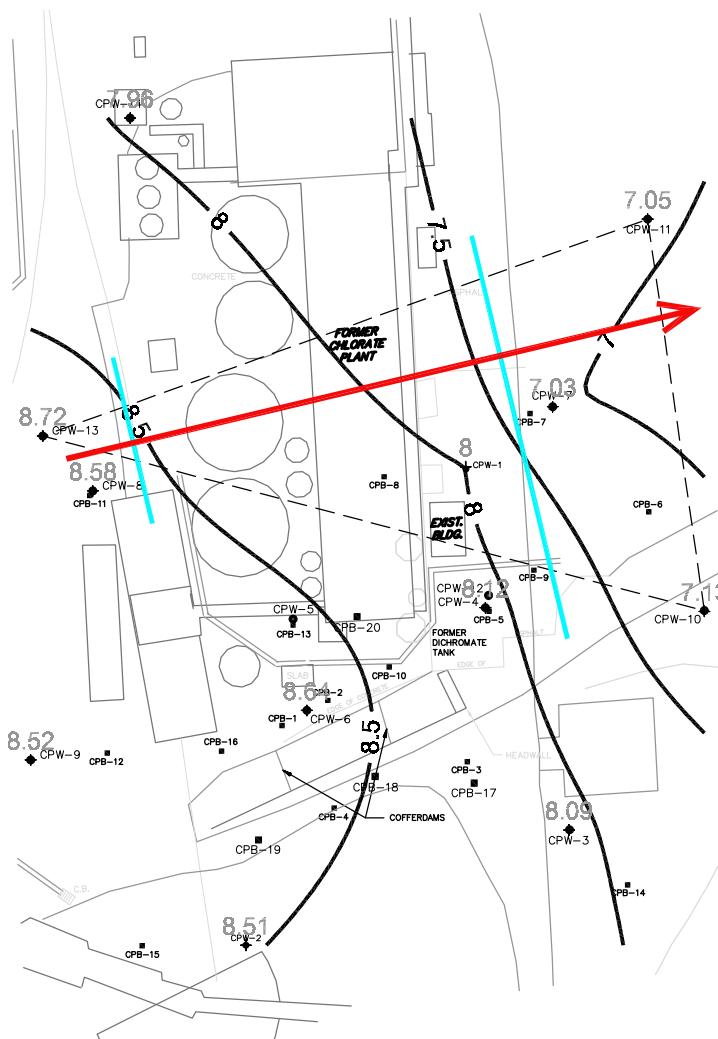
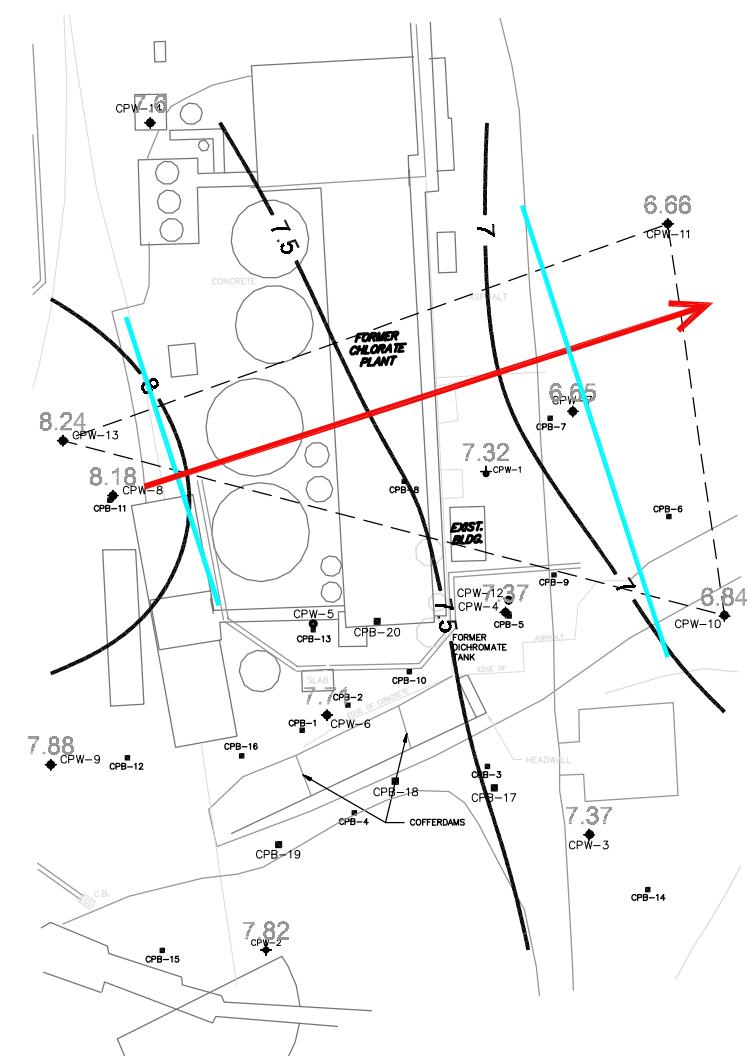
$$\text{River Concentration} = \frac{(\text{Darcy Velocity} * \text{Plume Width} * \text{Aquifer Depth})}{\text{Flow Rate}} * \text{Concentration}$$

$$\text{LINE 11-13: } \frac{13.4}{1.58'} = 8.48 \text{ units/ft}$$

$$\text{LINE 10-13: } \frac{14.2}{1.4'} = 10.14 \text{ units/ft}$$

$$\text{Hydraulic Gradient} \quad \frac{1 \text{ ft}}{171'} = 0.0058 \text{ ft/ft}$$

MAY 2012



$$\text{LINE 11-13: } \frac{13.4}{1.67'} = 8.02 \text{ units/ft}$$

$$\text{LINE 10-13: } \frac{14.2}{1.59'} = 8.93 \text{ units/ft}$$

$$\text{Hydraulic Gradient} \quad \frac{1 \text{ ft}}{157'} = 0.0064 \text{ ft/ft}$$

SCALE: 1" = 80 '

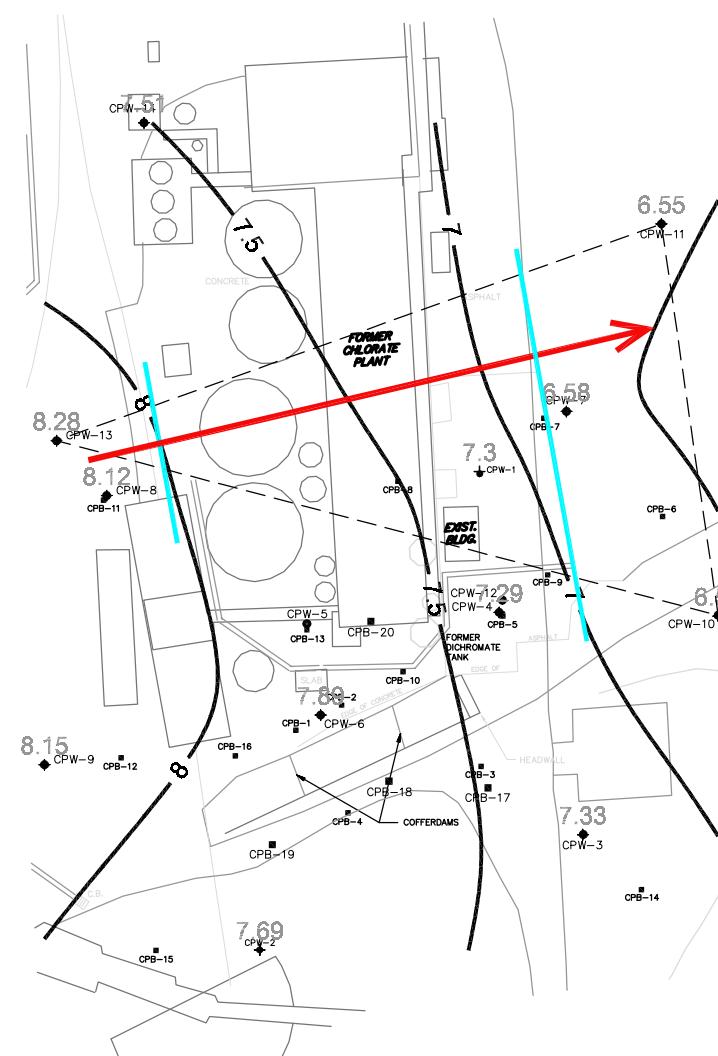
* Units are measured from a 40' scale

$$\text{LINE 11-13: } \frac{13.4}{1.73} = 7.75 \text{ units/f}$$

$$\text{LINE 10-13: } \frac{14.2}{1.72'} = 8.26 \text{ units/f}$$

$$\text{Hydraulic Gradient} \quad \frac{1 \text{ ft}}{161'} = 0.0062 \text{ ft/ft}$$

NOVEMBER 201



Average Hydraulic Gradient $\equiv 0.0063 \text{ ft/ft}$

BRUNSWICK CELLULOSE, INC.

BRUNSWICK GEORGIA

PROJECT NO. 02.20060613

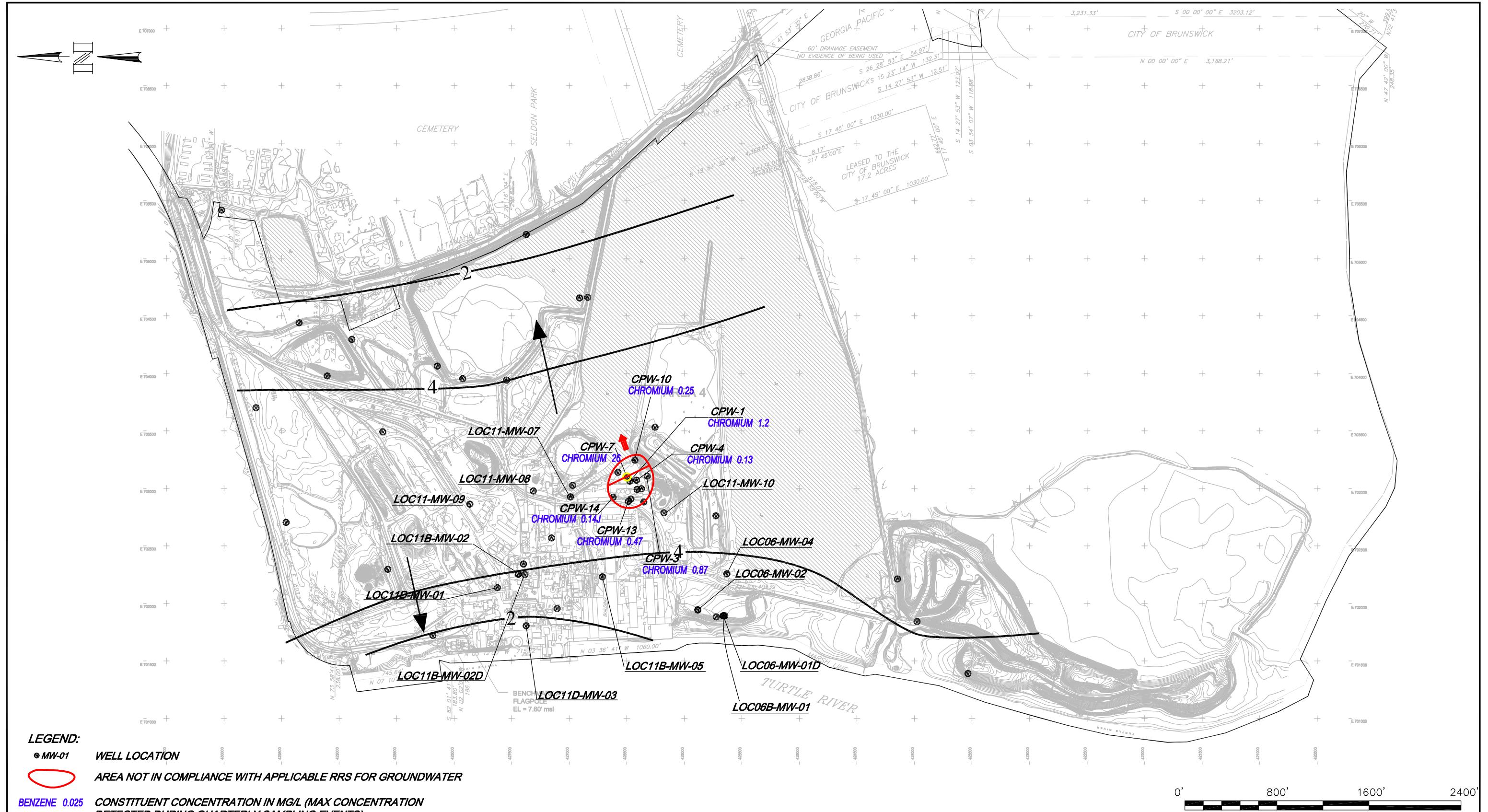


EarthCon Consultants, Inc.

1880 WEST OAK PKWY, BLDG 100, STE 106, MARIETTA, GA, 30062

FORMER CHLORATE PLANT
POTENTIOMETRIC SURFACE MAPS
QUARTERLY SAMPLING

DRAWN: SLS CHECKED: CDN DATE: AUGUST 2013 FIGURE: C-0



LEGEND:

© MW-01 WELL LOCATION

AREA NOT IN COMPLIANCE WITH APPLICABLE RRS FOR GROUNDWATER

**BENZENE 0.025 CONSTITUENT CONCENTRATION IN MG/L (MAX CONCENTRATION
DETECTED DURING QUARTERLY SAMPLING EVENTS)**

ND *NON DETECT*

— 4 — CONTOUR LINES

GROUNDWATER FLOW DIRECTION

AERATION STABILIZATION BASIN (ASB)

BRUNSWICK CELLULOSE, INC.
BRUNSWICK, GEORGIA



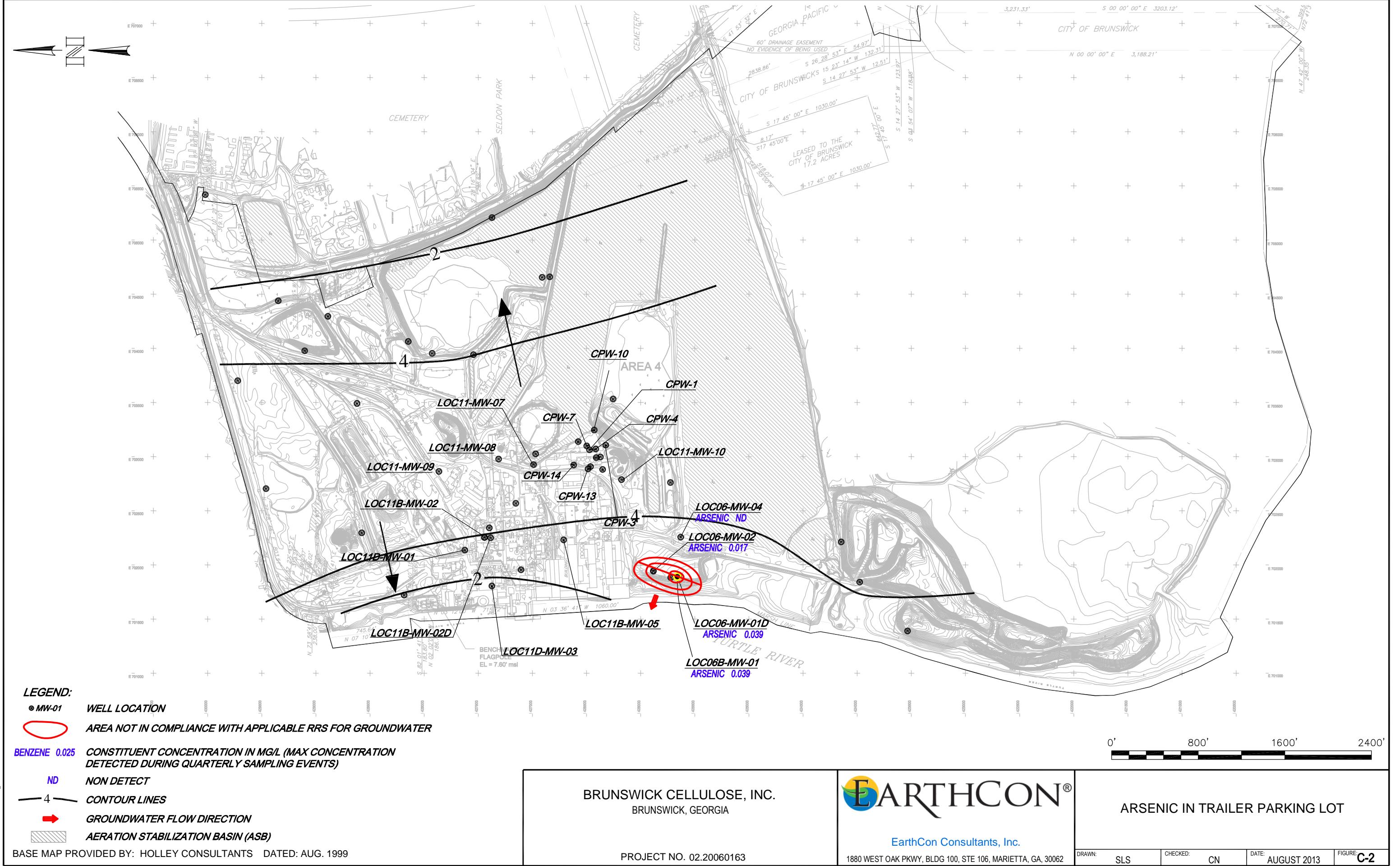
EarthCon Consultants, Inc.

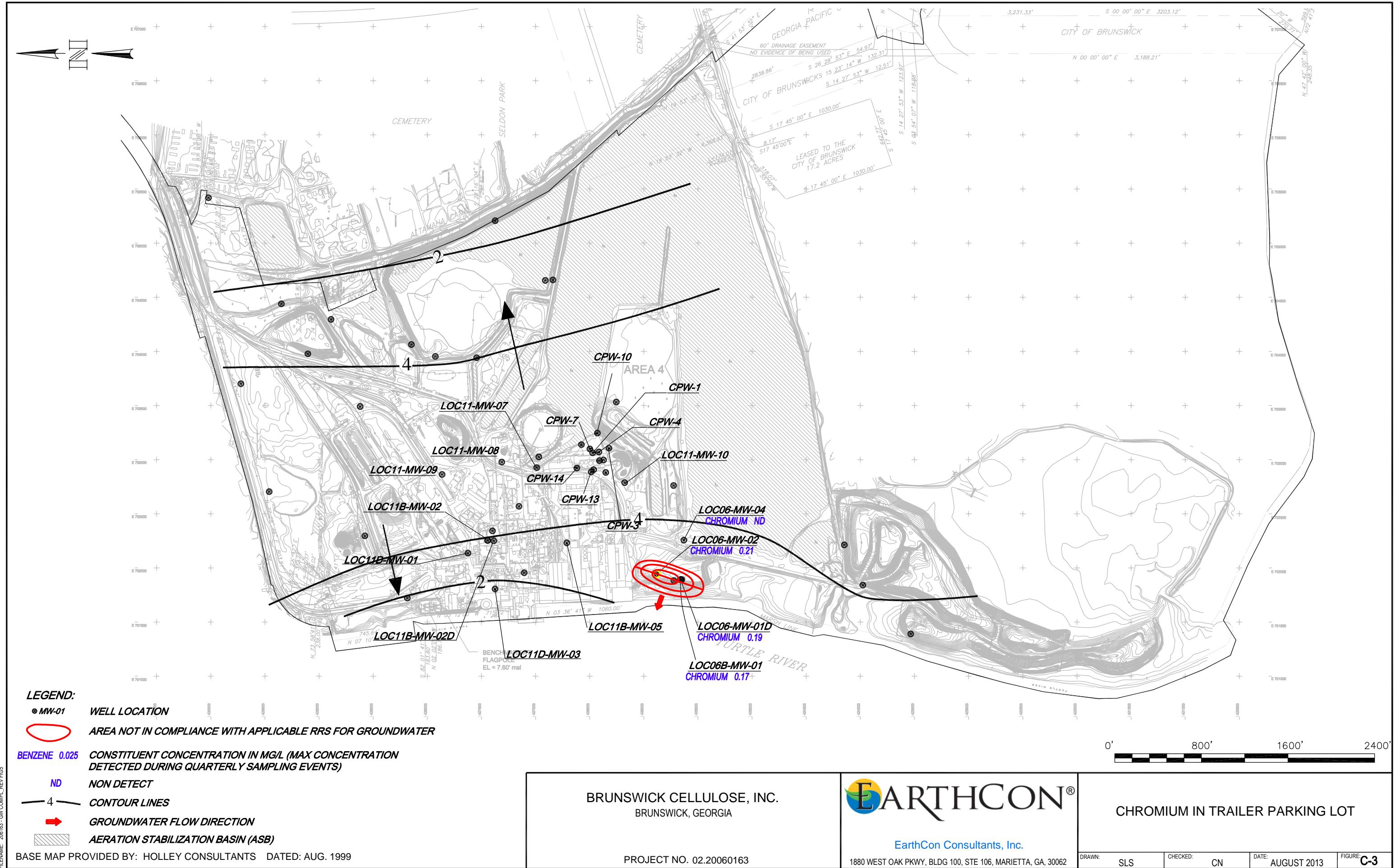
PROJECT NO. 02.20060163

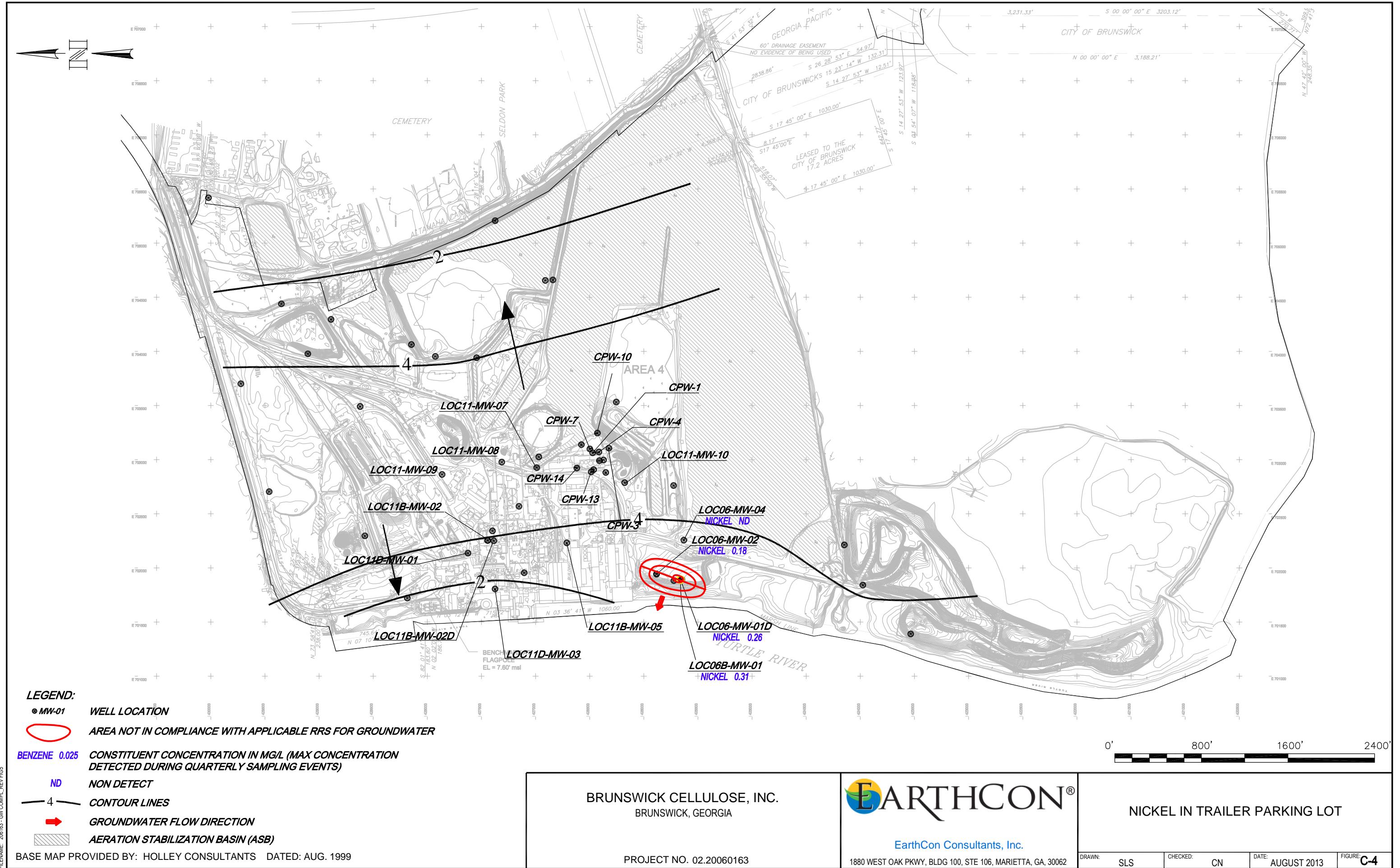
1880 WEST OAK PKWY, BLDG 100, STE 106, MARIETTA, GA, 30062

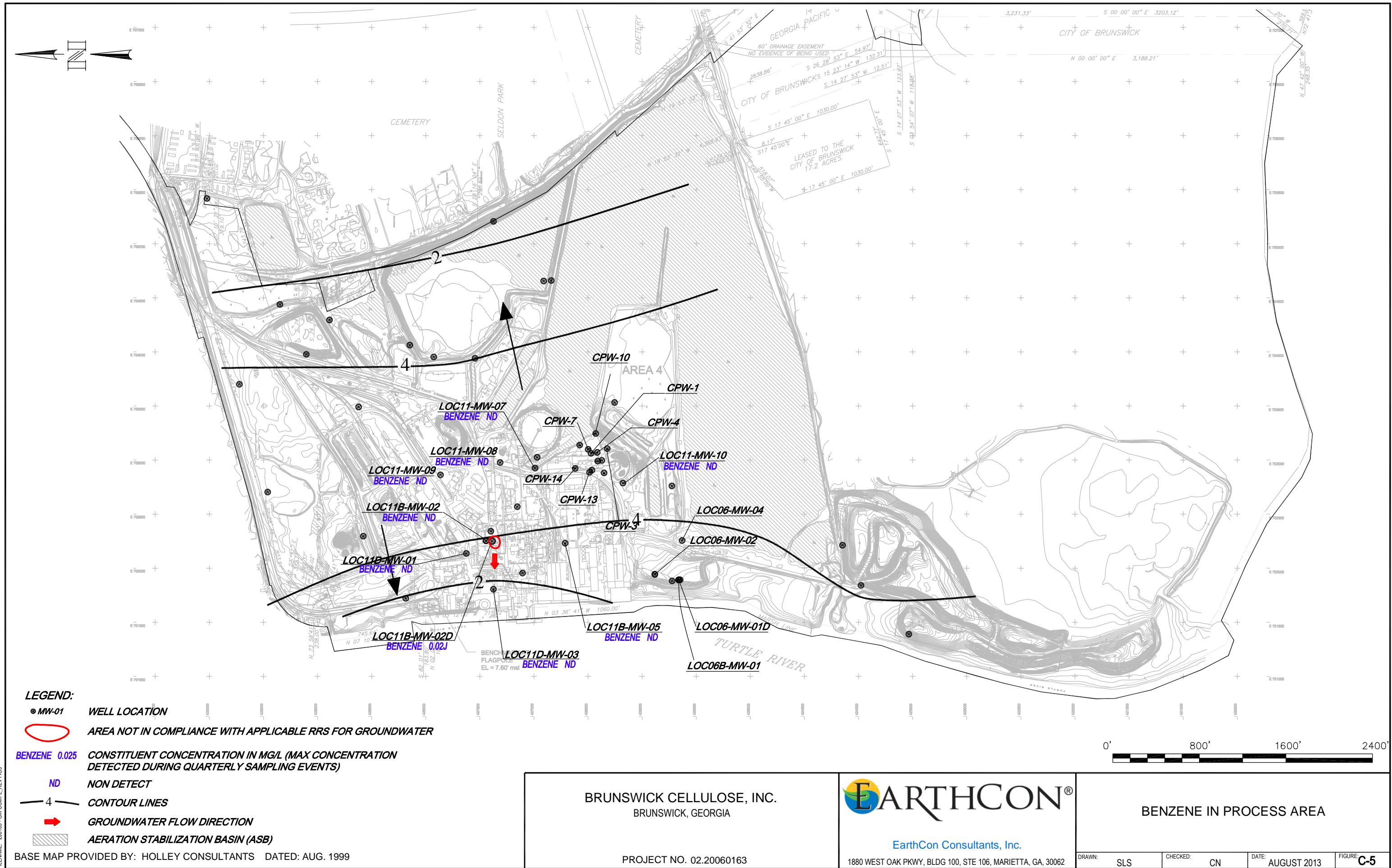
CHROMIUM IN FORMER CHLORATE PLANT AREA

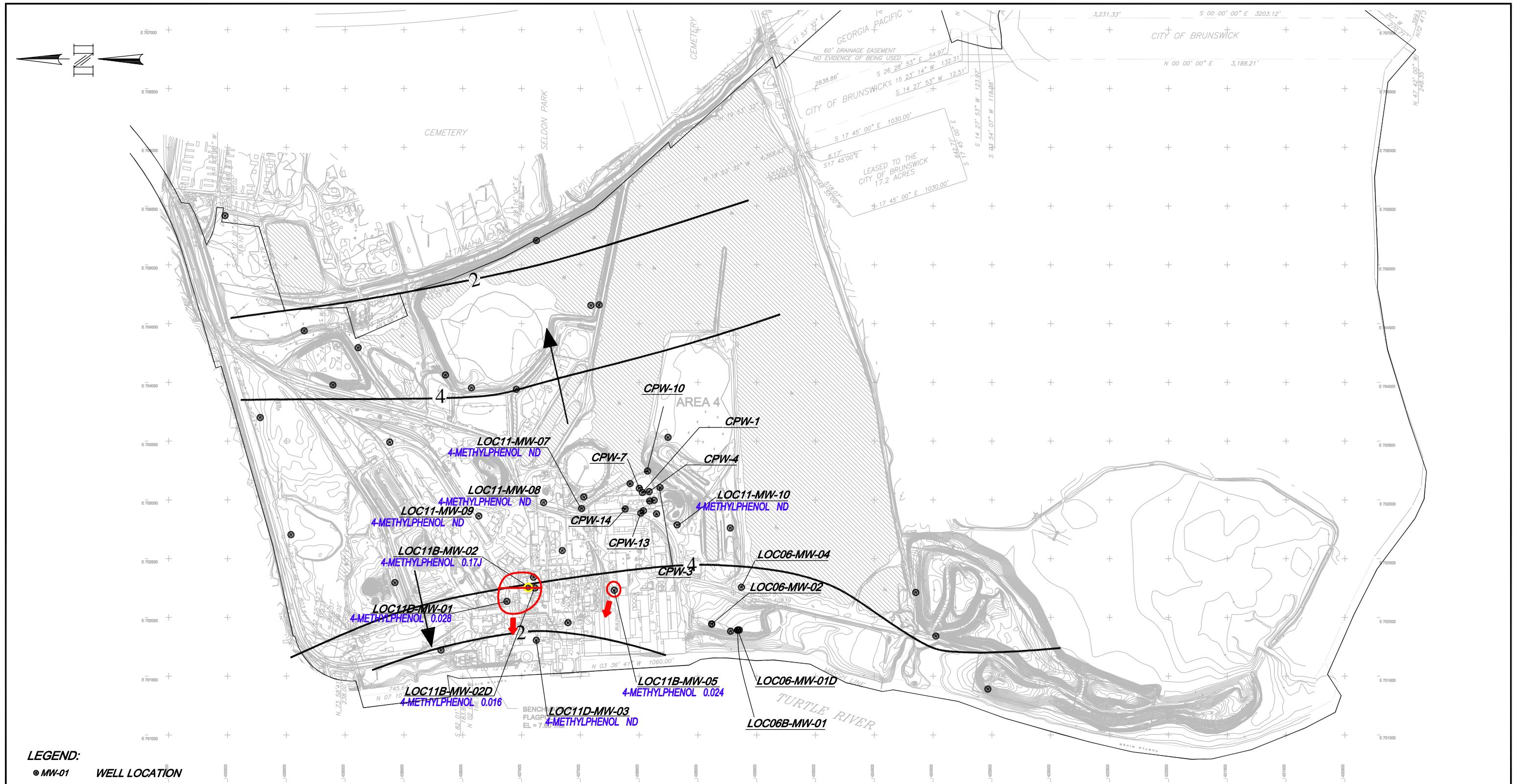
DRAWN: SLS CHECKED: CN DATE: AUGUST 2013 FIGURE: C-1










LEGEND:

● MW-01 WELL LOCATION

● AREA NOT IN COMPLIANCE WITH APPLICABLE RRS FOR GROUNDWATER

BENZENE 0.025 CONSTITUENT CONCENTRATION IN MG/L (MAX CONCENTRATION DETECTED DURING QUARTERLY SAMPLING EVENTS)

ND NON DETECT

— 4 — CONTOUR LINES

→ GROUNDWATER FLOW DIRECTION

■ AERATION STABILIZATION BASIN (ASB)

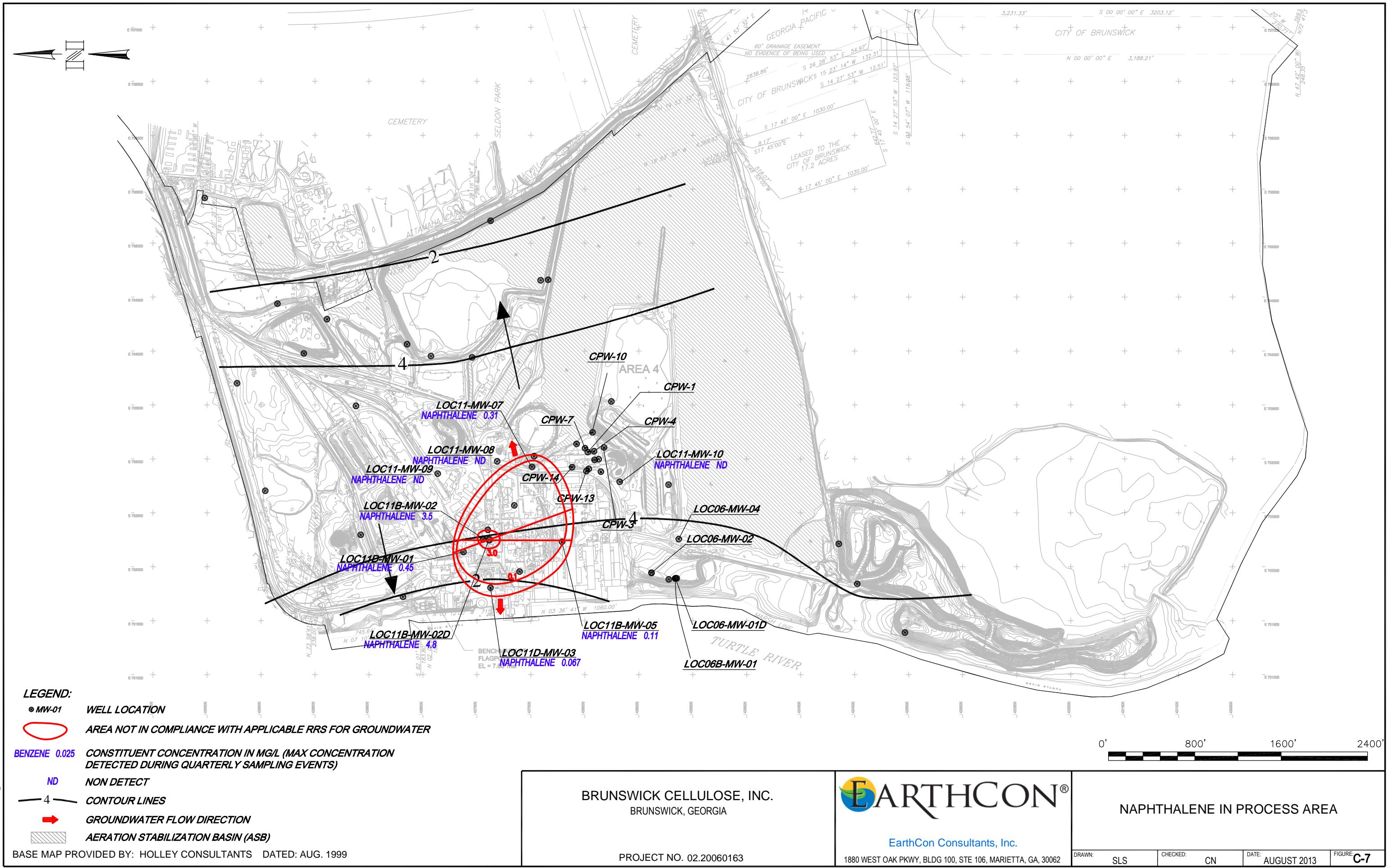
BRUNSWICK CELLULOSE, INC.
BRUNSWICK, GEORGIA

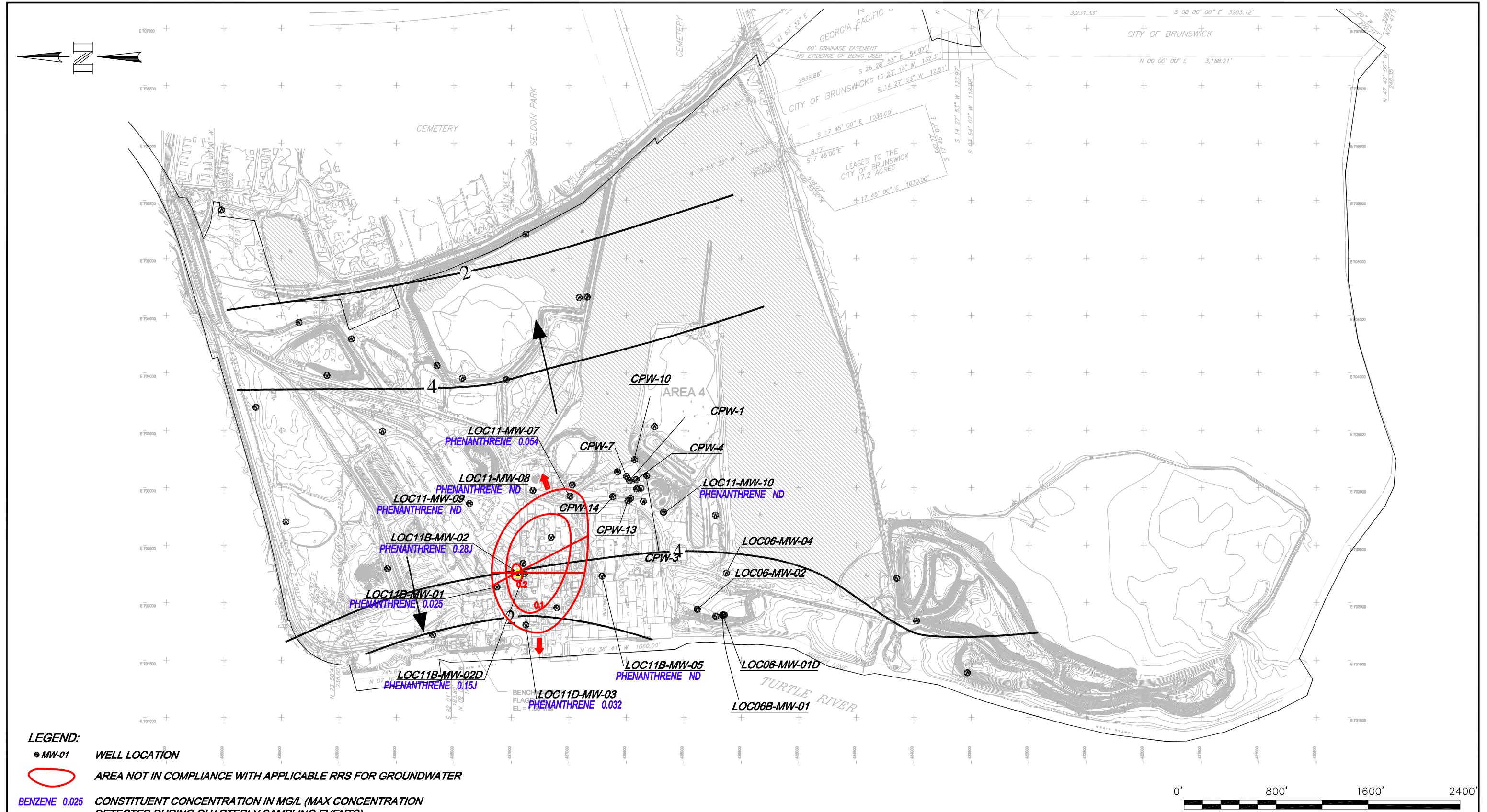
PROJECT NO. 02.20060163

 EARTHCON®
EarthCon Consultants, Inc.

1880 WEST OAK PKWY, BLDG 100, STE 106, MARIETTA, GA, 30062

DRAWN: SLS CHECKED: CN DATE: AUGUST 2013 FIGURE: C-6





LEGEND:

© MW-01 WELL LOCATION

AREA NOT IN COMPLIANCE WITH APPLICABLE RRS FOR GROUNDWATER

BENZENE 0.025 CONSTITUENT CONCENTRATION IN MG/L (MAX CONCENTRATION DETECTED DURING QUARTERLY SAMPLING EVENTS)

ND *NON DETECT*

— 4 — CONTOUR LINES

GROUNDWATER FLOW DIRECTION

BASE MAP PROVIDED BY: HOLLEY CONSULTANTS DATED: AUG. 1998

BRUNSWICK CELLULOSE, INC.
BRUNSWICK, GEORGIA



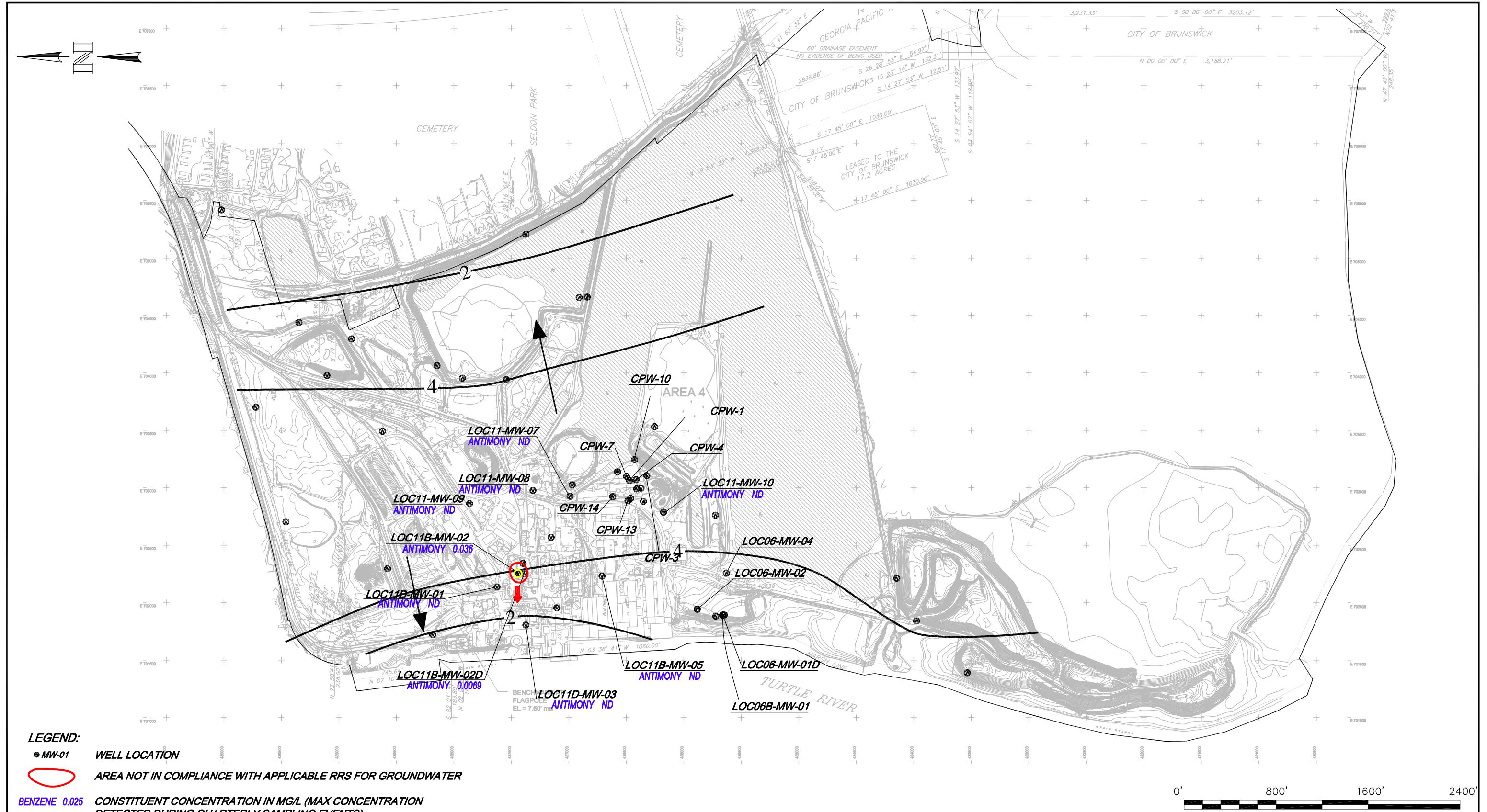
EarthCon Consultants, Inc.

PROJECT NO. 02.20060163

1880 WEST OAK PKWY, BLDG 100, STE 106, MARIETTA, GA, 30062

PHENANTHRENE IN PROCESS AREA

DRAWN: SLS CHECKED: CN DATE: AUGUST 2013 FIGURE: C-8



LEGEND:

© MW-01 WELL LOCATION

AREA NOT IN COMPLIANCE WITH APPLICABLE RRS FOR GROUNDWATER

**BENZENE 0.025 CONSTITUENT CONCENTRATION IN MG/L (MAX CONCENTRATION
DETECTED DURING QUARTERLY SAMPLING EVENTS)**

ND *NON DETECT*

— 4 — CONTOUR LINES

GROUNDWATER FLOW DIRECTION

 ***AERATION STABILIZATION BASIN (ASB)***

BRUNSWICK CELLULOSE, INC.
BRUNSWICK, GEORGIA



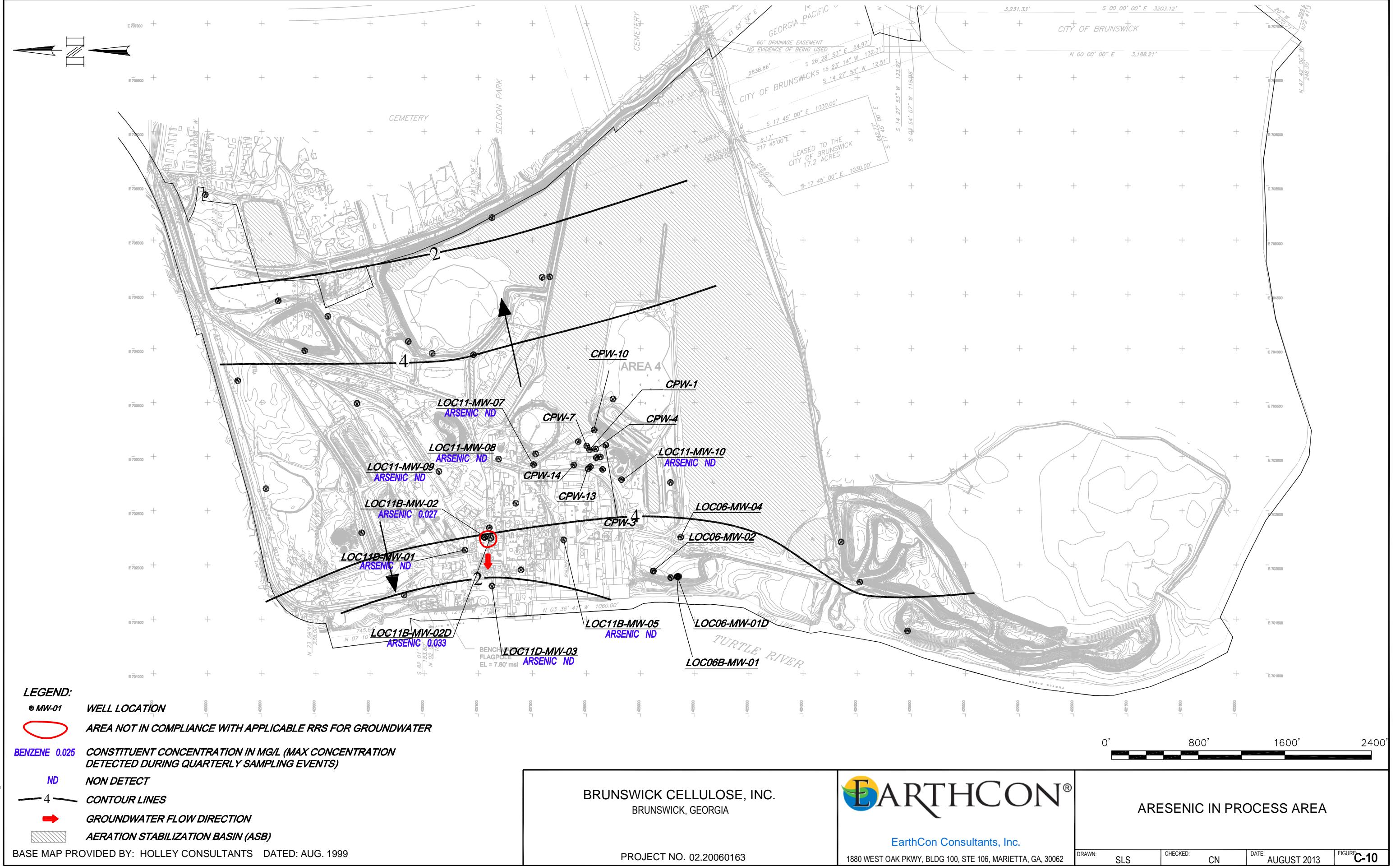
EarthCon Consultants, Inc.

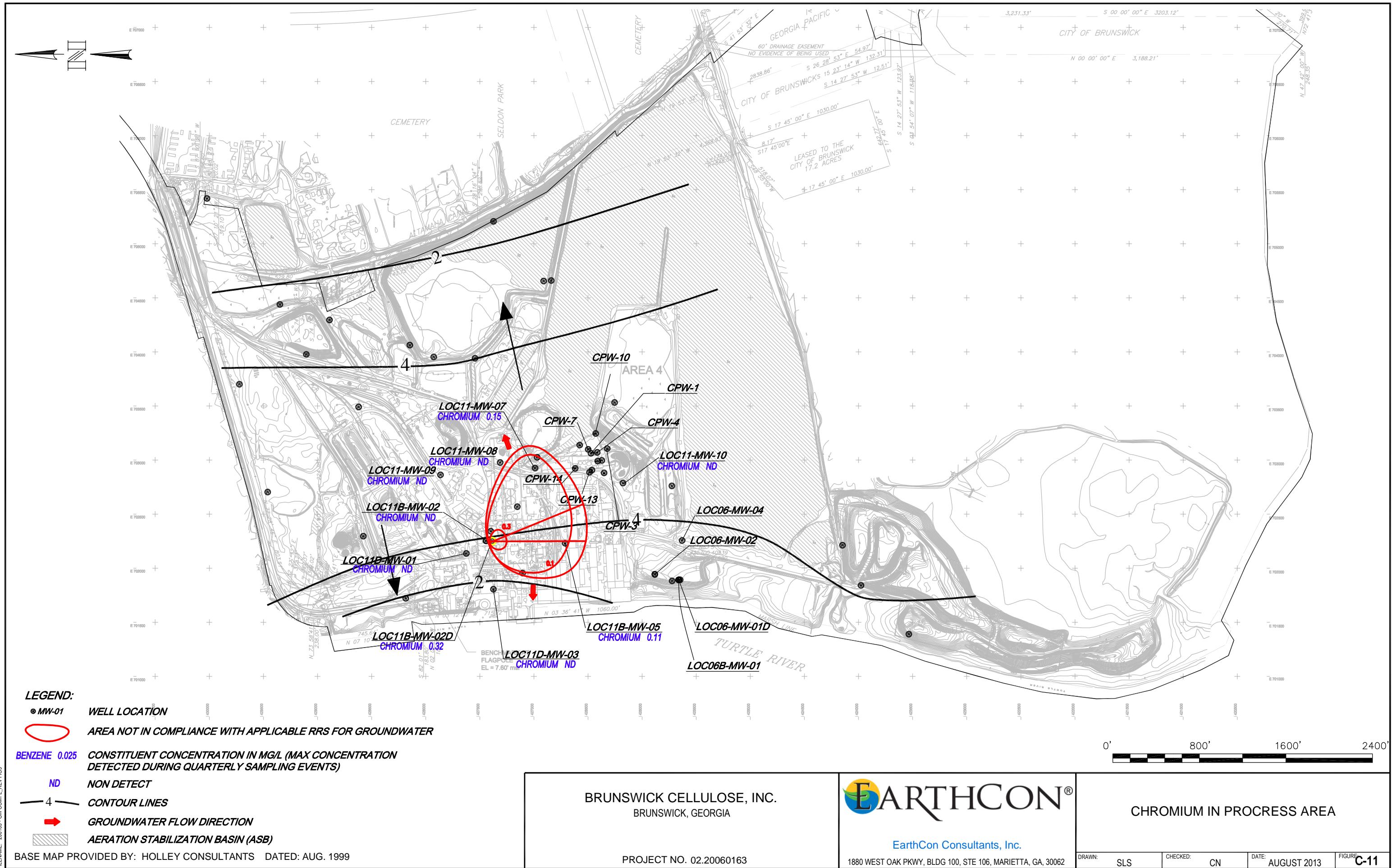
PROJECT NO. 02.20060163

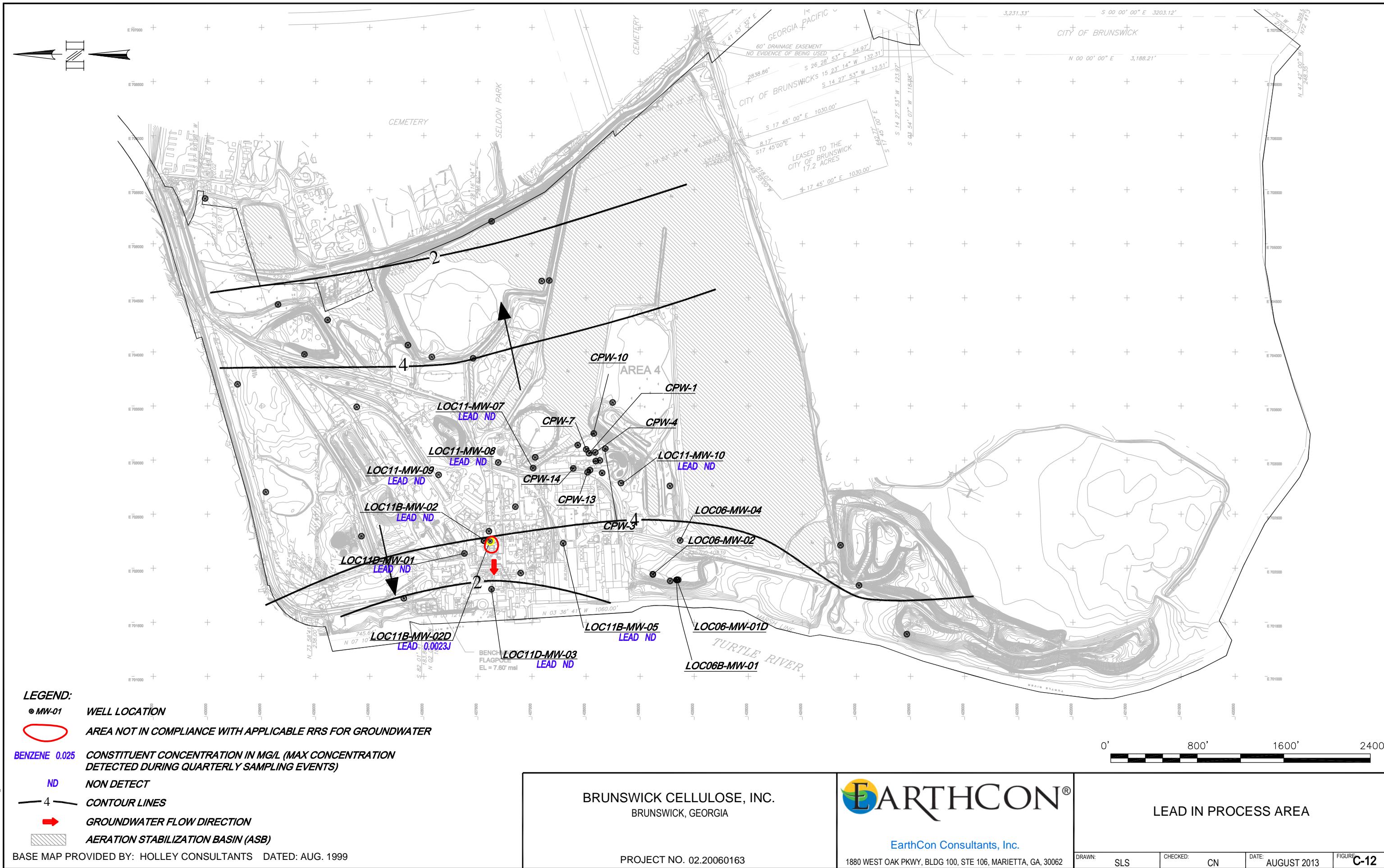
1880 WEST OAK PKWY, BLDG 100, STE 106, MARIETTA, GA, 30062

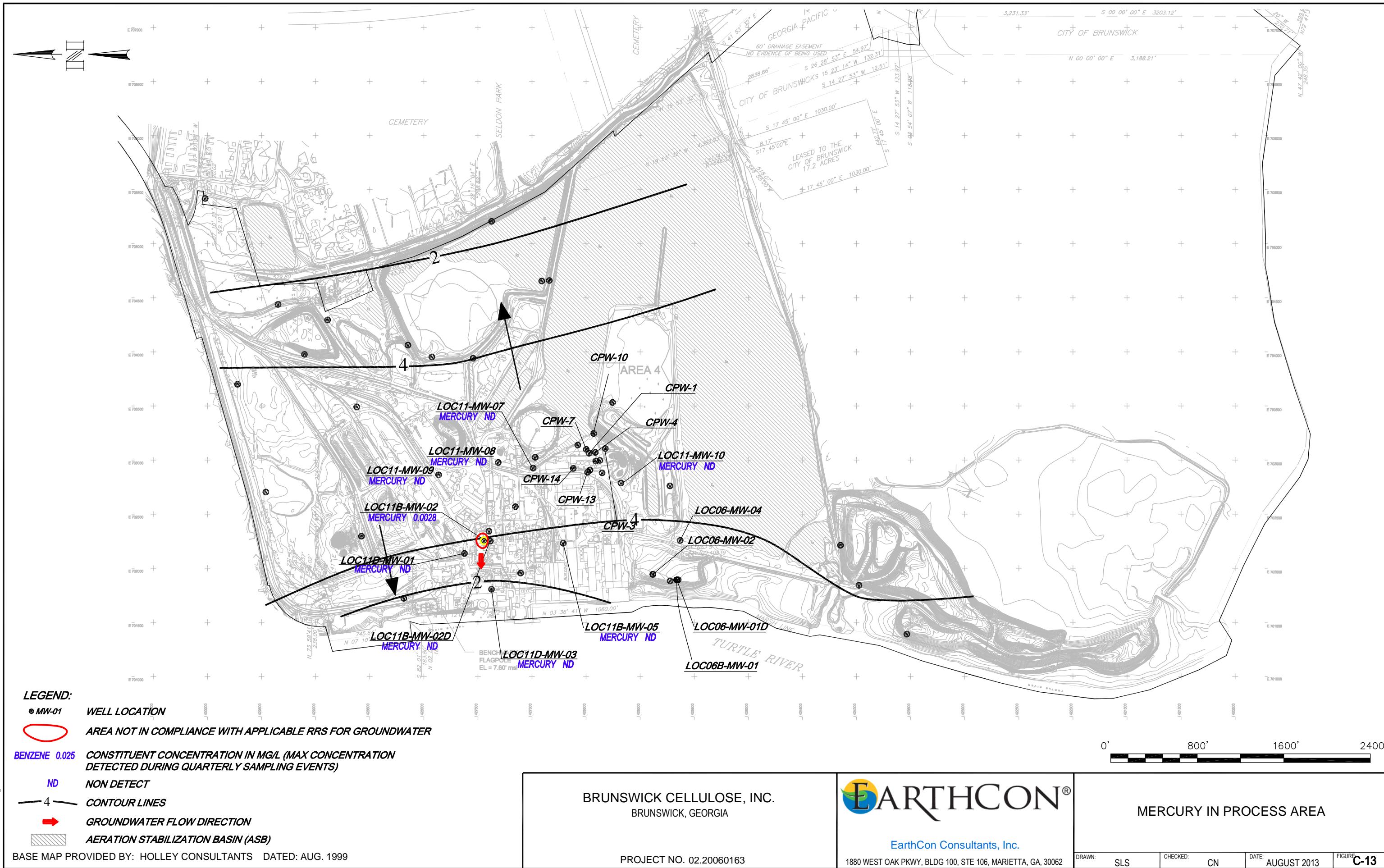
ANTIMONY IN PROCESS AREA

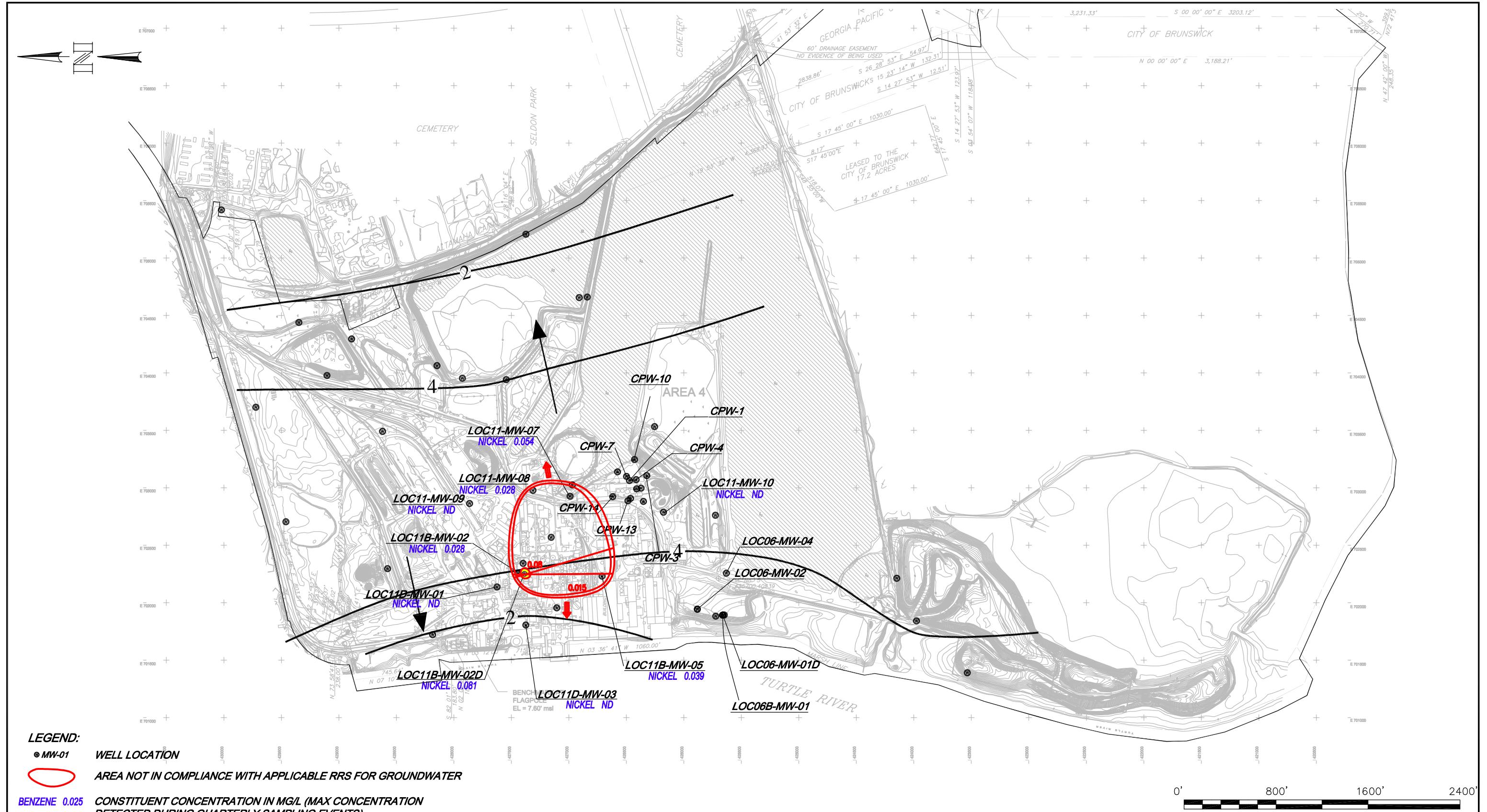
DRAWN: SLS CHECKED: CN DATE: AUGUST 2013 FIGURE: C-9











LEGEND:

© MW-01 WELL LOCATION

AREA NOT IN COMPLIANCE WITH APPLICABLE RRS FOR GROUNDWATER

BENZENE 0.025

DETECTED DURING

ND *NON DETECT*

— 4 — CONTOUR LINES

 GROUNDWATER FLOW DIRECTION
 AERATION STABILIZATION BASIN (ASB)

BRUNSWICK CELLULOSE, INC.
BRUNSWICK, GEORGIA



EarthCon Consultants, Inc.

PROJECT NO. 02.20060163

1880 WEST OAK PKWY, BLDG 100, STE 106, MARIETTA, GA, 30062

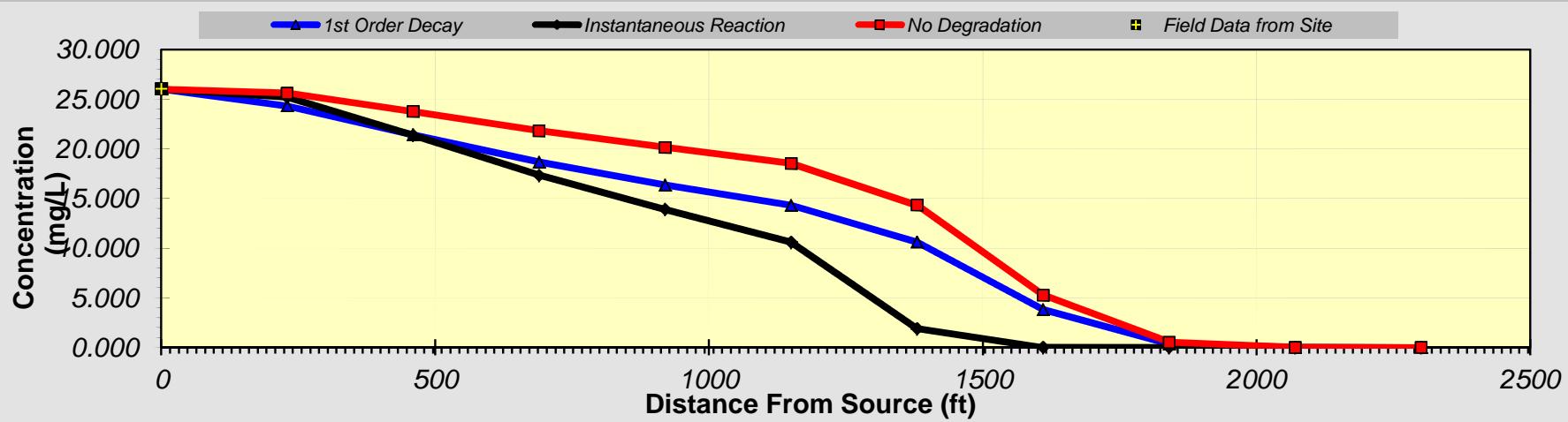
NICKEL IN PROCESS AREA

AWN: SLS CHECKED: CN DATE: AUGUST 2013 FIGURE: C-14

CHROMIUM (FCP) CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

Distance from Source (ft)

TYPE OF MODEL	0	230	460	690	920	1150	1380	1610	1840	2070	2300
No Degradation	26.000	25.600	23.747	21.793	20.129	18.533	14.320	5.267	0.515	0.010	0.000
1st Order Decay	26.000	24.303	21.402	18.645	16.350	14.307	10.612	3.818	0.370	0.007	0.000
Inst. Reaction	26.000	25.175	21.353	17.321	13.889	10.595	1.905	0.000	0.000	0.000	0.000
Field Data from Site	26.000										



**Calculate
Animation**

Time:

5,000 Years

Return to

Recalculate This

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence

Version 1.4

1. HYDROGEOLOGY

Seepage Velocity*	Vs	33.2	(ft/yr)
or		↑ or	
Hydraulic Conductivity	K	1.5E-03	(cm/sec)
Hydraulic Gradient	i	0.0063	(ft/ft)
Porosity	n	0.3	(-)

2. DISPERSION

Longitudinal Dispersivity*	alpha x	9.3	(ft)
Transverse Dispersivity*	alpha y	0.9	(ft)
Vertical Dispersivity*	alpha z	0.0	(ft)
or		↑ or	
Estimated Plume Length	Lp	150	(ft)

3. ADSORPTION

Retardation Factor*	R	108.7	(-)
or		↑ or	
Soil Bulk Density	rho	1.7	(kg/l)
Partition Coefficient	Koc	19	(L/kg)
FractionOrganicCarbon	foc	1.0E+0	(-)

4. BIODEGRADATION

1st Order Decay Coeff*	lambda	6.9E-5	(per yr)
or		↑ or	
Solute Half-Life	t-half	10000	(year)
or Instantaneous Reaction Model			
Delta Oxygen*	DO	5.78	(mg/L)
Delta Nitrate*	NO3	17	(mg/L)
Observed Ferrous Iron*	Fe2+	11.3	(mg/L)
Delta Sulfate*	SO4	100	(mg/L)
Observed Methane*	CH4	0.414	(mg/L)

Brunswick Cellulose
Chromium in FCP (Eastern Property Boundary)

Data Input Instructions:

- 1. Enter value directly....or
- 2. Calculate by filling in grey cells below. (To restore formulas, hit button below).
- Variable* → Data used directly in model.
- 20 → Value calculated by model. (Don't enter any data).

5. GENERAL

Modeled Area Length*	2300	(ft)
Modeled Area Width*	400	(ft)
Simulation Time*	5000	(yr)

6. SOURCE DATA

Source Thickness in Sat.Zone* 5 (ft)

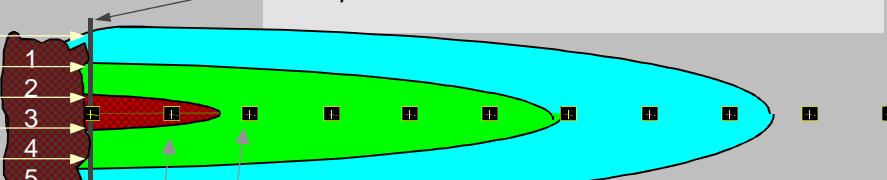
Source Zones:

Width* (ft)	Conc. (mg/L)*
75	0
75	0
100	26
75	0
75	0

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths

Source Halflife (see Help):

Infinite	Infinite	(yr)
Inst. React.	1st Order	
Soluble Mass	Infinite	(Kg)
In Source NAPL, Soil		



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	26.0							.0			
Dist. from Source (ft)	0	230	460	690	920	1150	1380	1610	1840	2070	2300

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN

RUN ARRAY

View Output

Help

Recalculate

Paste Example Dataset

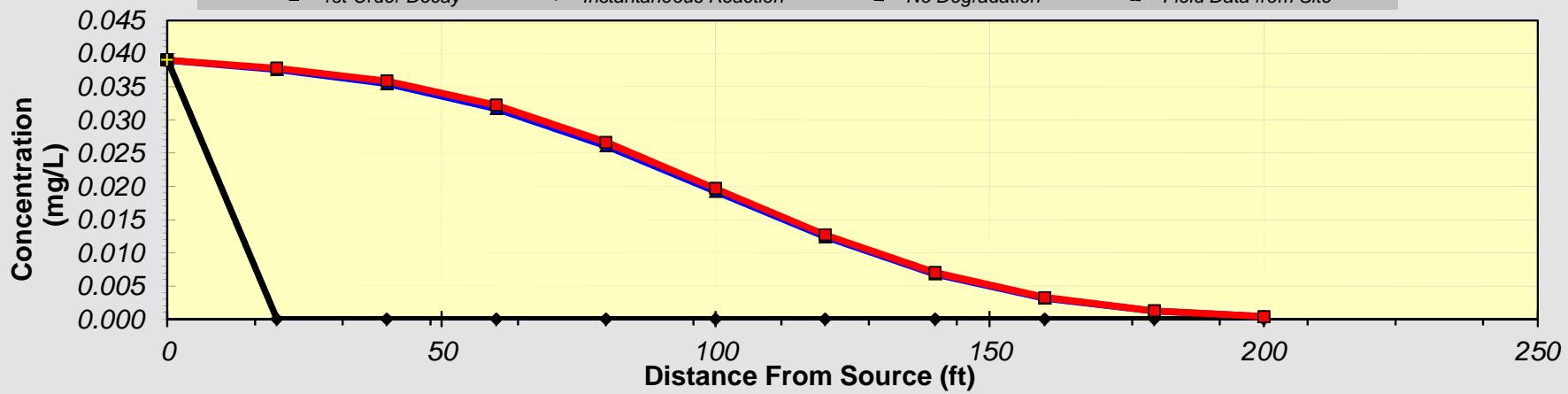
Restore Formulas for Vs,

ARSENIC CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

Distance from Source (ft)

TYPE OF MODEL	0	20	40	60	80	100	120	140	160	180	200
No Degradation	0.039	0.038	0.036	0.032	0.027	0.020	0.013	0.007	0.003	0.001	0.000
1st Order Decay	0.039	0.038	0.035	0.032	0.026	0.019	0.012	0.007	0.003	0.001	0.000
Inst. Reaction	0.039	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<i>Field Data from Site</i>	0.039										

▲ 1st Order Decay —■— Instantaneous Reaction ■ No Degradation +■+ Field Data from Site



Calculate Animation

Time:

500 Years

[Return to](#)

[Recalculate This](#)

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence

Version 1.4

1. HYDROGEOLOGY

Seepage Velocity*	Vs	33.2	(ft/yr)
or		↑ or	
Hydraulic Conductivity	K	1.5E-03	(cm/sec)
Hydraulic Gradient	i	0.0063	(ft/ft)
Porosity	n	0.3	(-)

2. DISPERSION

Longitudinal Dispersivity*	alpha x	9.3	(ft)
Transverse Dispersivity*	alpha y	0.9	(ft)
Vertical Dispersivity*	alpha z	0.0	(ft)
or		↑ or	
Estimated Plume Length	Lp	150	(ft)

3. ADSORPTION

Retardation Factor*	R	165.3	(-)
or		↑ or	
Soil Bulk Density	rho	1.7	(kg/l)
Partition Coefficient	Koc	29	(L/kg)
FractionOrganicCarbon	foc	1.0E+0	(-)

4. BIODEGRADATION

1st Order Decay Coeff*	lambda	6.9E-5	(per yr)
or		↑ or	
Solute Half-Life	t-half	10000	(year)
or Instantaneous Reaction Model			
Delta Oxygen*	DO	5.78	(mg/L)
Delta Nitrate*	NO3	17	(mg/L)
Observed Ferrous Iron*	Fe2+	11.3	(mg/L)
Delta Sulfate*	SO4	100	(mg/L)
Observed Methane*	CH4	0.414	(mg/L)

Brunswick Cellulose

Arsenic in Trailer Parking
Lot (towards Turtle River)

Data Input Instructions:

- 1. Enter value directly....or
- 2. Calculate by filling in grey cells below. (To restore formulas, hit button below).
- Variable* → Data used directly in model.
- 20 → Value calculated by model. (Don't enter any data).

5. GENERAL

Modeled Area Length*	200	(ft)
Modeled Area Width*	650	(ft)
Simulation Time*	500	(yr)

6. SOURCE DATA

Source Thickness in Sat.Zone* 5 (ft)

Source Zones:

Width* (ft)	Conc. (mg/L)*
120	0.0075
200	0.0225
150	0.039
90	0.0225
90	0.0075

Source Halflife (see Help):

Infinite	Infinite	(yr)
Inst. React.	1st Order	
Soluble Mass	Infinite	(Kg)
In Source NAPL, Soil		

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	.039											
Dist. from Source (ft)	0	20	40	60	80	100	120	140	160	180	200	

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN

RUN ARRAY

View Output

Help

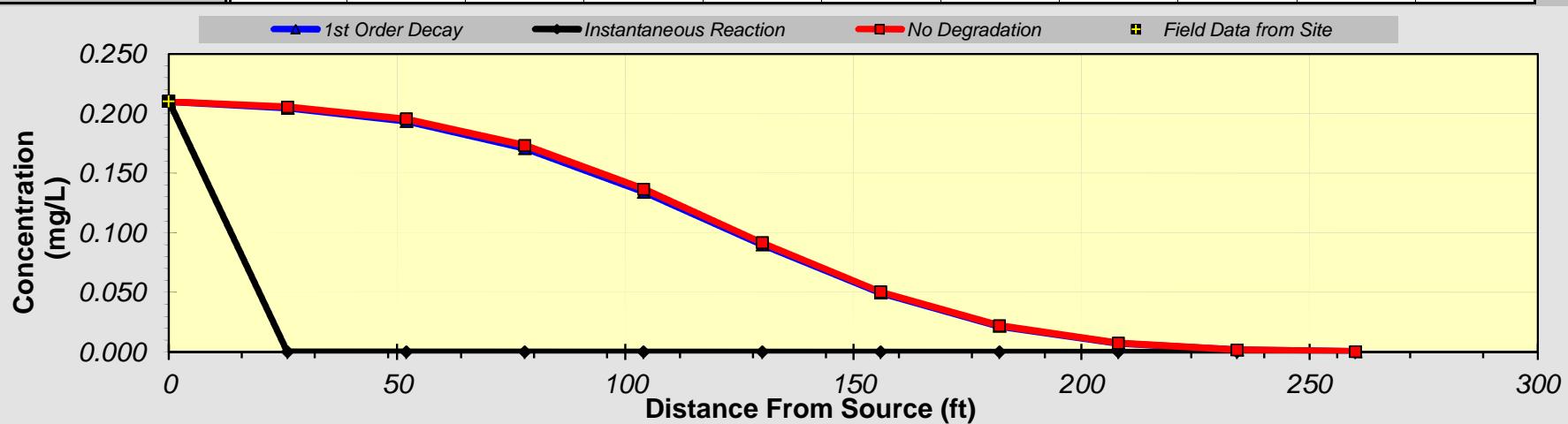
Recalculate

Paste Example Dataset

Restore Formulas for Vs,

CHROMIUM CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft)										
	0	26	52	78	104	130	156	182	208	234	260
No Degradation	0.210	0.205	0.195	0.173	0.137	0.092	0.050	0.022	0.008	0.002	0.000
1st Order Decay	0.210	0.204	0.193	0.171	0.134	0.090	0.049	0.022	0.007	0.002	0.000
Inst. Reaction	0.210	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Field Data from Site	0.210										



Calculate
Animation

Time:

400 Years

Return to

Recalculate This

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence

Version 1.4

1. HYDROGEOLOGY

Seepage Velocity*	Vs	33.2	(ft/yr)
or		↑ or	
Hydraulic Conductivity	K	1.5E-03	(cm/sec)
Hydraulic Gradient	i	0.0063	(ft/ft)
Porosity	n	0.3	(-)

2. DISPERSION

Longitudinal Dispersivity*	alpha x	9.3	(ft)
Transverse Dispersivity*	alpha y	0.9	(ft)
Vertical Dispersivity*	alpha z	0.0	(ft)
or		↑ or	
Estimated Plume Length	Lp	150	(ft)

3. ADSORPTION

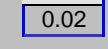
Retardation Factor*	R	108.7	(-)
or		↑ or	
Soil Bulk Density	rho	1.7	(kg/l)
Partition Coefficient	Koc	19	(L/kg)
FractionOrganicCarbon	foc	1.0E+0	(-)

4. BIODEGRADATION

1st Order Decay Coeff*	lambda	6.9E-5	(per yr)
or		↑ or	
Solute Half-Life	t-half	10000	(year)
or Instantaneous Reaction Model			
Delta Oxygen*	DO	5.78	(mg/L)
Delta Nitrate*	NO3	17	(mg/L)
Observed Ferrous Iron*	Fe2+	11.3	(mg/L)
Delta Sulfate*	SO4	100	(mg/L)
Observed Methane*	CH4	0.414	(mg/L)

Brunswick Cellulose
Chromium in Trailer Parking
(towards Turtle River)

Data Input Instructions:

- 1. Enter value directly....or
 or

- 2. Calculate by filling in grey cells below. (To restore formulas, hit button below).
- Variable* → Data used directly in model.
- 20 → Value calculated by model. (Don't enter any data).

5. GENERAL

Modeled Area Length*	260	(ft)
Modeled Area Width*	650	(ft)
Simulation Time*	400	(yr)

6. SOURCE DATA

Source Thickness in Sat.Zone*  (ft)

Source Zones:

Width* (ft)	Conc. (mg/L)*
100	0.5
100	0.15
225	0.21
125	0.15
100	0.5

Source Halflife (see Help):

Infinite	Infinite	(yr)
Inst. React.	1st Order	
Soluble Mass	Infinite	(Kg)

In Source NAPL, Soil

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths

View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	.21										
Dist. from Source (ft)	0	26	52	78	104	130	156	182	208	234	260

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN

RUN ARRAY

View Output

Help

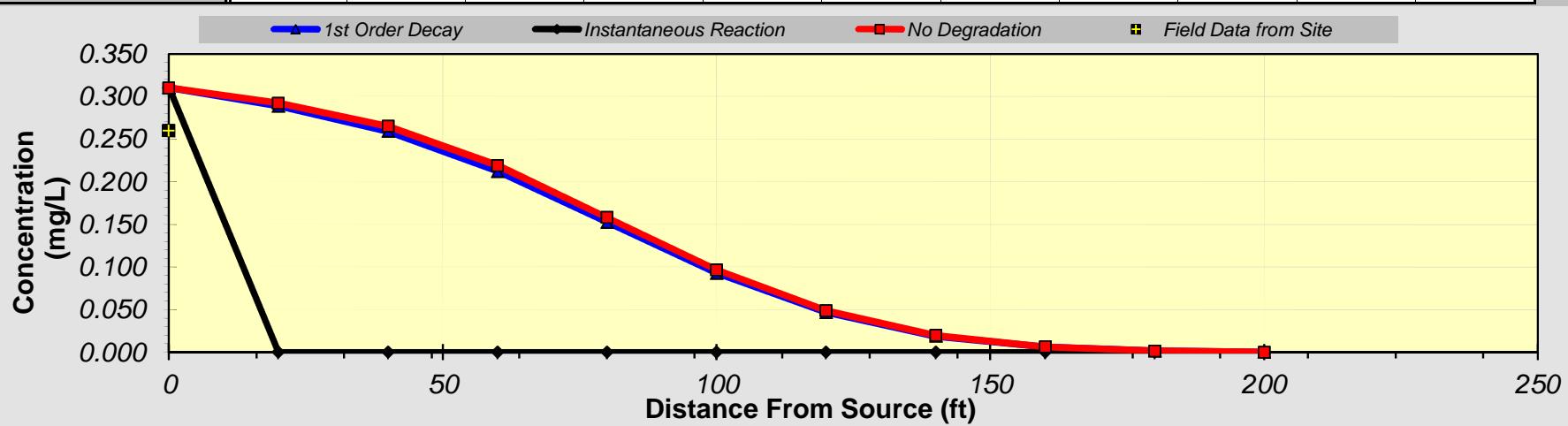
Recalculate

Paste Example Dataset

Restore Formulas for Vs,

NICKEL CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft)										
	0	20	40	60	80	100	120	140	160	180	200
No Degradation	0.310	0.292	0.265	0.219	0.158	0.097	0.049	0.020	0.006	0.002	0.000
1st Order Decay	0.310	0.289	0.259	0.212	0.152	0.093	0.046	0.019	0.006	0.002	0.000
Inst. Reaction	0.310	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Field Data from Site	0.260										



Calculate
Animation

Time:

900 Years

Return to

Recalculate This

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence

Version 1.4

1. HYDROGEOLOGY

Seepage Velocity*	Vs	33.2	(ft/yr)
or		↑ or	
Hydraulic Conductivity	K	1.5E-03	(cm/sec)
Hydraulic Gradient	i	0.0063	(ft/ft)
Porosity	n	0.3	(-)

2. DISPERSION

Longitudinal Dispersivity*	alpha x	9.3	(ft)
Transverse Dispersivity*	alpha y	0.9	(ft)
Vertical Dispersivity*	alpha z	0.0	(ft)
or		↑ or	
Estimated Plume Length	Lp	150	(ft)

3. ADSORPTION

Retardation Factor*	R	369.3	(-)
or		↑ or	
Soil Bulk Density	rho	1.7	(kg/l)
Partition Coefficient	Koc	65	(L/kg)
FractionOrganicCarbon	foc	1.0E+0	(-)

4. BIODEGRADATION

1st Order Decay Coeff*	lambda	6.9E-5	(per yr)
or		↑ or	
Solute Half-Life	t-half	10000	(year)
or Instantaneous Reaction Model			
Delta Oxygen*	DO	5.78	(mg/L)
Delta Nitrate*	NO3	17	(mg/L)
Observed Ferrous Iron*	Fe2+	11.3	(mg/L)
Delta Sulfate*	SO4	100	(mg/L)
Observed Methane*	CH4	0.414	(mg/L)

Brunswick Cellulose

Nickel in Trailer Parking
(towards Turtle River)

Data Input Instructions:

- 1. Enter value directly....or
- 2. Calculate by filling in grey cells below. (To restore formulas, hit button below).
- Variable* → Data used directly in model.
- 20 → Value calculated by model. (Don't enter any data).

5. GENERAL

Modeled Area Length*	200	(ft)
Modeled Area Width*	600	(ft)
Simulation Time*	900	(yr)

6. SOURCE DATA

Source Thickness in Sat.Zone* 5 (ft)

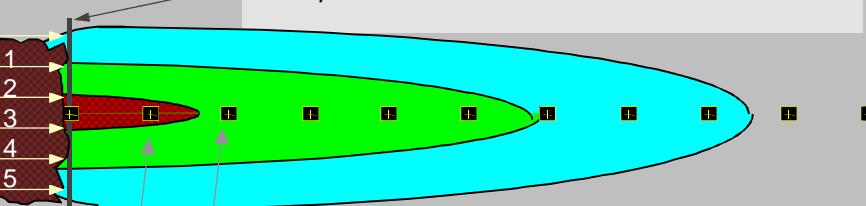
Source Zones:

Width* (ft)	Conc. (mg/L)*
100	0.075
200	0.225
100	0.31
120	0.225
80	0.075

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths

Source Halflife (see Help):

Infinite	Infinite	(yr)
Inst. React.	1st Order	
Soluble Mass	Infinite	(Kg)
In Source NAPL, Soil		



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	.26								.0		
Dist. from Source (ft)	0	20	40	60	80	100	120	140	160	180	200

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN

RUN ARRAY

View Output

Help

Recalculate

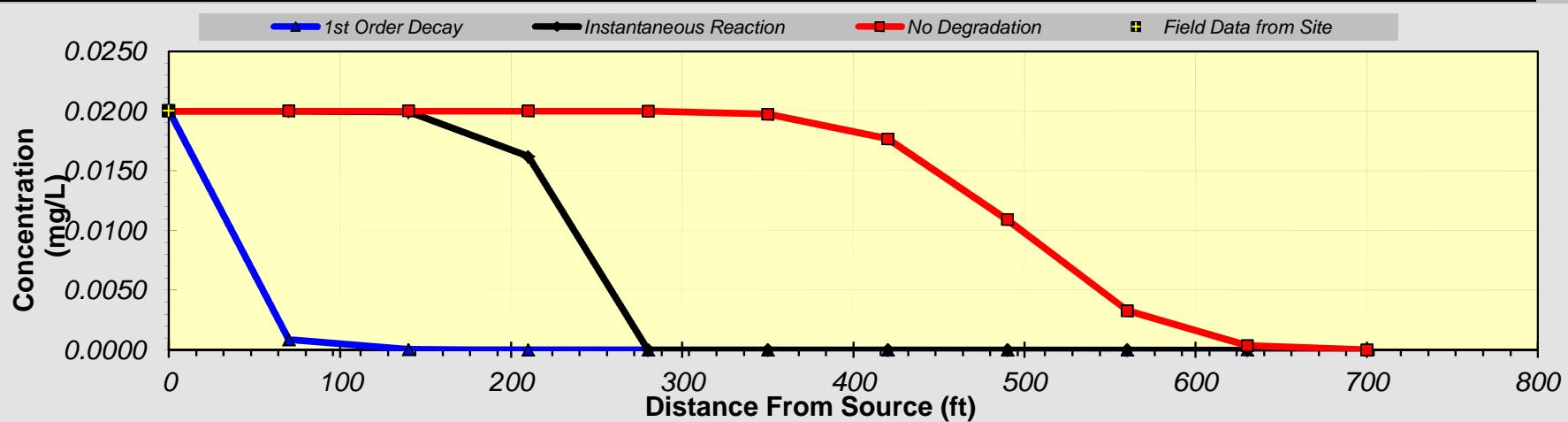
Paste Example Dataset

Restore Formulas for Vs,

BENZENE CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

Distance from Source (ft)

TYPE OF MODEL	0	70	140	210	280	350	420	490	560	630	700
No Degradation	0.0200	0.0200	0.0200	0.0200	0.0200	0.0197	0.0177	0.0109	0.0033	0.0004	0.0000
1st Order Decay	0.0200	0.0009	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Inst. Reaction	0.0200	0.0200	0.0199	0.0162	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Field Data from Site	0.0200										



Calculate Animation

Time:

25 Years

Return to

Recalculate This

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence

Version 1.4

1. HYDROGEOLOGY

Seepage Velocity*	Vs	33.2	(ft/yr)
or		↑ or	
Hydraulic Conductivity	K	1.5E-03	(cm/sec)
Hydraulic Gradient	i	0.0063	(ft/ft)
Porosity	n	0.3	(-)

2. DISPERSION

Longitudinal Dispersivity*	alpha x	4.1	(ft)
Transverse Dispersivity*	alpha y	0.4	(ft)
Vertical Dispersivity*	alpha z	0.0	(ft)
or		↑ or	
Estimated Plume Length	Lp	50	(ft)

3. ADSORPTION

Retardation Factor*	R	1.7	(-)
or		↑ or	
Soil Bulk Density	rho	1.7	(kg/l)
Partition Coefficient	Koc	58.9	(L/kg)
FractionOrganicCarbon	foc	2.0E-3	(-)

4. BIODEGRADATION

1st Order Decay Coeff*	lambda	1.1E+0	(per yr)
or		↑ or	
Solute Half-Life	t-half	0.66	(year)
or Instantaneous Reaction Model			
Delta Oxygen*	DO	5.78	(mg/L)
Delta Nitrate*	NO3	17	(mg/L)
Observed Ferrous Iron*	Fe2+	11.3	(mg/L)
Delta Sulfate*	SO4	100	(mg/L)
Observed Methane*	CH4	0.414	(mg/L)

Brunswick Cellulose
Benzene in Process Area
(towards Turtle River)

Data Input Instructions:

- 115 → 1. Enter value directly....or
- or → 2. Calculate by filling in grey cells below. (To restore formulas, hit button below).
- 0.02 → Variable* → Data used directly in model.
- 20 → Value calculated by model. (Don't enter any data).

5. GENERAL

Modeled Area Length*	700	(ft)
Modeled Area Width*	100	(ft)
Simulation Time*	25	(yr)

6. SOURCE DATA

Source Thickness in Sat.Zone* 5 (ft)

Source Zones:

Width* (ft)	Conc. (mg/L)*
20	0
20	0
100	0.02
20	0
20	0

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths

Source Halflife (see Help):

Infinite	Infinite	(yr)
Inst. React.	1st Order	
Soluble Mass	Infinite	(Kg)
In Source NAPL, Soil		

View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	.02								.0		
Dist. from Source (ft)	0	70	140	210	280	350	420	490	560	630	700

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN

RUN ARRAY

View Output

Help

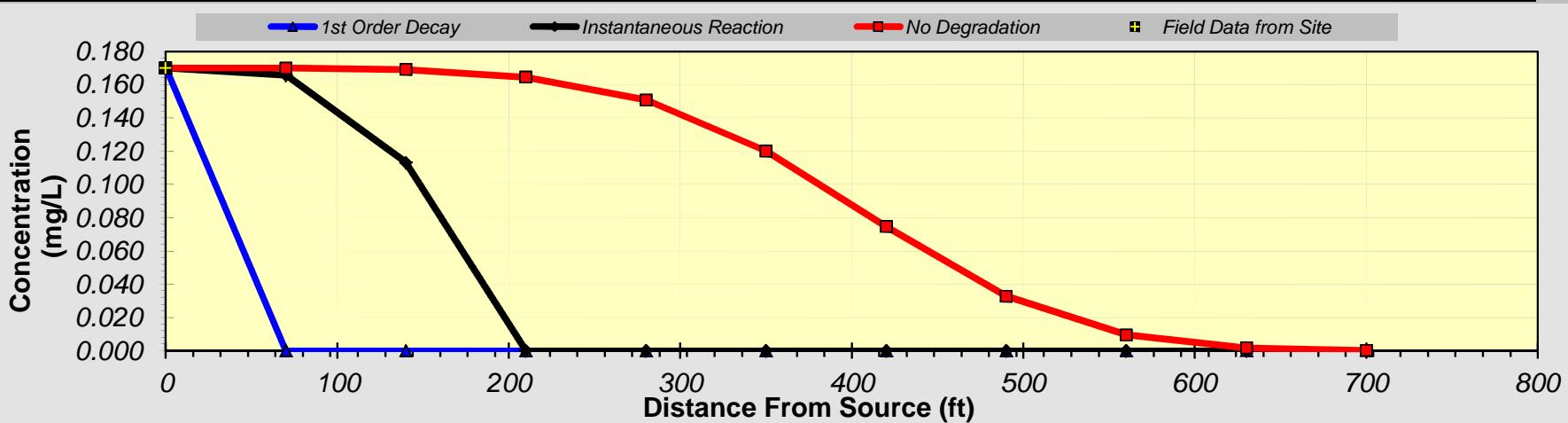
Recalculate

Paste Example Dataset

Restore Formulas for Vs,

4-METHYLPHENOL CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft)										
	0	70	140	210	280	350	420	490	560	630	700
No Degradation	0.170	0.170	0.169	0.164	0.151	0.120	0.075	0.033	0.010	0.002	0.000
1st Order Decay	0.170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	0.170	0.166	0.113	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Field Data from Site	0.170										



Calculate
Animation

Time:

55 Years

Return to

Recalculate This

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence

Version 1.4

1. HYDROGEOLOGY

Seepage Velocity*	Vs	33.2	(ft/yr)
or		1.15 or 0.02	
Hydraulic Conductivity	K	1.5E-03	(cm/sec)
Hydraulic Gradient	i	0.0063	(ft/ft)
Porosity	n	0.3	(-)

2. DISPERSION

Longitudinal Dispersivity*	alpha x	11.0	(ft)
Transverse Dispersivity*	alpha y	1.1	(ft)
Vertical Dispersivity*	alpha z	0.0	(ft)
or		1.1 or 0.02	
Estimated Plume Length	Lp	200	(ft)

3. ADSORPTION

Retardation Factor*	R	4.4	(-)
or		1.1 or 0.02	
Soil Bulk Density	rho	1.7	(kg/l)
Partition Coefficient	Koc	300.4	(L/kg)
FractionOrganicCarbon	foc	2.0E-3	(-)

4. BIODEGRADATION

1st Order Decay Coeff*	lambda	2.8E+1	(per yr)
or		1.15 or 0.02	
Solute Half-Life	t-half	0.03	(year)
or Instantaneous Reaction Model			
Delta Oxygen*	DO	5.78	(mg/L)
Delta Nitrate*	NO3	17	(mg/L)
Observed Ferrous Iron*	Fe2+	11.3	(mg/L)
Delta Sulfate*	SO4	100	(mg/L)
Observed Methane*	CH4	0.414	(mg/L)

Brunswick Cellulose
4-methylphenol in Process
Area (towards Turtle River)

Data Input Instructions:

- 1. Enter value directly....or
- 2. Calculate by filling in grey cells below. (To restore formulas, hit button below).
- Variable* → Data used directly in model.
- 20 → Value calculated by model. (Don't enter any data).

5. GENERAL

Modeled Area Length*	700	(ft)
Modeled Area Width*	400	(ft)
Simulation Time*	55	(yr)

6. SOURCE DATA

Source Thickness in Sat.Zone* 5 (ft)

Source Zones:

Width* (ft)	Conc. (mg/L)*
75	0
75	0.028
100	0.17
75	0.028
75	0

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths

Source Halflife (see Help):

Infinite	Infinite	(yr)
Inst. React.	1st Order	
Soluble Mass	Infinite	(Kg)
In Source NAPL, Soil		

View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	.17								.0		
Dist. from Source (ft)	0	70	140	210	280	350	420	490	560	630	700

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN

RUN ARRAY

View Output

Help

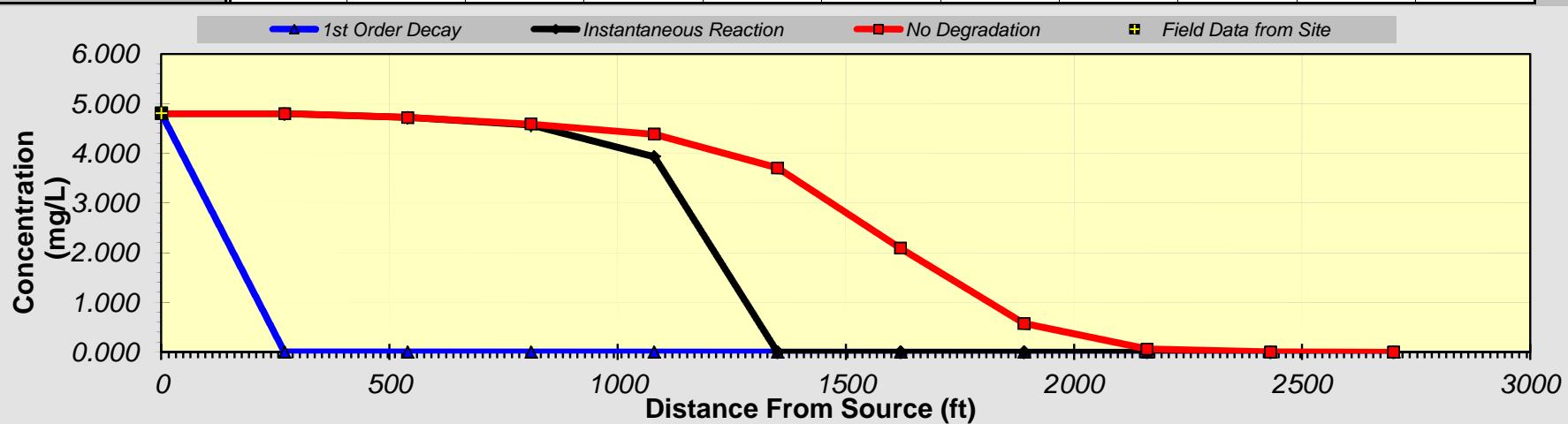
Recalculate

Paste Example Dataset

Restore Formulas for Vs,

NAPHTHALENE CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft)										
	0	270	540	810	1080	1350	1620	1890	2160	2430	2700
No Degradation	4.800	4.794	4.717	4.586	4.381	3.706	2.090	0.572	0.062	0.002	0.000
1st Order Decay	4.800	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	4.800	4.794	4.717	4.567	3.931	0.000	0.000	0.000	0.000	0.000	0.000
Field Data from Site	4.800										



Replay
Animation

Next Timestep

Prev Timestep

Time:
900 Years

Return to

Recalculate This

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence

Version 1.4

1. HYDROGEOLOGY

Seepage Velocity*	Vs	33.2	(ft/yr)
or		1.5E-03	(cm/sec)
Hydraulic Conductivity	K	1.5E-03	(ft/sec)
Hydraulic Gradient	i	0.0063	(ft/ft)
Porosity	n	0.3	(-)

2. DISPERSION

Longitudinal Dispersivity*	alpha x	19.5	(ft)
Transverse Dispersivity*	alpha y	2.0	(ft)
Vertical Dispersivity*	alpha z	0.0	(ft)
or		600	(ft)
Estimated Plume Length	Lp	600	(ft)

3. ADSORPTION

Retardation Factor*	R	18.5	(-)
or		1.7	(kg/l)
Soil Bulk Density	rho	1.7	(kg/l)
Partition Coefficient	Koc	1544	(L/kg)
FractionOrganicCarbon	foc	2.0E-3	(-)

4. BIODEGRADATION

1st Order Decay Coeff*	lambda	4.6E-1	(per yr)
or		1.5	(year)
Solute Half-Life	t-half	1.5	(year)
or Instantaneous Reaction Model			
Delta Oxygen*	DO	5.78	(mg/L)
Delta Nitrate*	NO3	17	(mg/L)
Observed Ferrous Iron*	Fe2+	11.3	(mg/L)
Delta Sulfate*	SO4	100	(mg/L)
Observed Methane*	CH4	0.414	(mg/L)

Brunswick Cellulose

Naphthalene in Process Area
(Eastern Property Boundary)

2700	(ft)
1200	(ft)
900	(yr)

6. SOURCE DATA

Source Thickness in Sat.Zone* 5 (ft)

Source Zones:

Width* (ft)	Conc. (mg/L)*
60	0.05
220	2
200	4.8
620	2
100	0.05

Source Halflife (see Help):

Infinite	Infinite	(yr)
Inst. React.	1st Order	
Soluble Mass	Infinite	(Kg)
In Source NAPL, Soil		

Data Input Instructions:

- 1. Enter value directly....or
- 2. Calculate by filling in grey cells below. (To restore formulas, hit button below).
- Variable* Data used directly in model.
- Value calculated by model. (Don't enter any data).

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	4.8	.	.0								
Dist. from Source (ft)	0	270	540	810	1080	1350	1620	1890	2160	2430	2700

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN

RUN ARRAY

View Output

View Output

Help

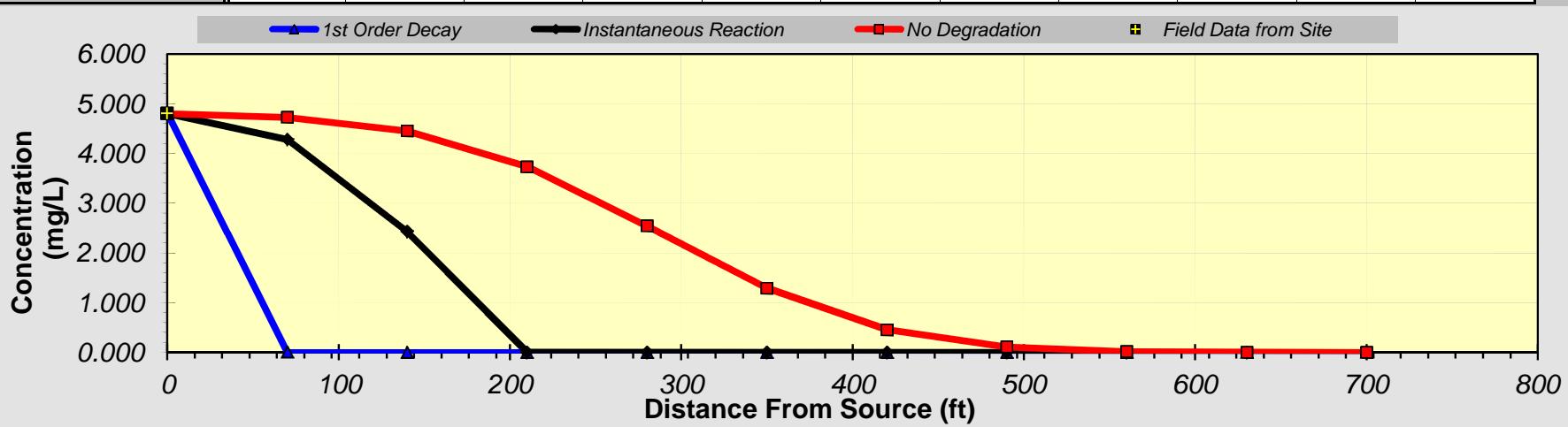
Recalculate

Paste Example Dataset

Restore Formulas for Vs,

NAPHTHALENE CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft)										
	0	70	140	210	280	350	420	490	560	630	700
No Degradation	4.800	4.723	4.449	3.731	2.540	1.288	0.458	0.110	0.017	0.002	0.000
1st Order Decay	4.800	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	4.800	4.279	2.429	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Field Data from Site	4.800										



Calculate
Animation

Time:

160 Years

Return to

Recalculate This

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence

Version 1.4

1. HYDROGEOLOGY

Seepage Velocity*	Vs	33.2	(ft/yr)
or		1.15 or 0.02	
Hydraulic Conductivity	K	1.5E-03	(cm/sec)
Hydraulic Gradient	i	0.0063	(ft/ft)
Porosity	n	0.3	(-)

2. DISPERSION

Longitudinal Dispersivity*	alpha x	17.9	(ft)
Transverse Dispersivity*	alpha y	1.8	(ft)
Vertical Dispersivity*	alpha z	0.0	(ft)
or		1.8 or 0.0	
Estimated Plume Length	Lp	500	(ft)

3. ADSORPTION

Retardation Factor*	R	18.5	(-)
or		1.8 or 0.0	
Soil Bulk Density	rho	1.7	(kg/l)
Partition Coefficient	Koc	1544	(L/kg)
FractionOrganicCarbon	foc	2.0E-3	(-)

4. BIODEGRADATION

1st Order Decay Coeff*	lambda	4.6E-1	(per yr)
or		1.5 or 1.5	(year)
Solute Half-Life	t-half	1.5	(year)
or Instantaneous Reaction Model			
Delta Oxygen*	DO	5.78	(mg/L)
Delta Nitrate*	NO3	17	(mg/L)
Observed Ferrous Iron*	Fe2+	11.3	(mg/L)
Delta Sulfate*	SO4	100	(mg/L)
Observed Methane*	CH4	0.414	(mg/L)

Brunswick Cellulose

Naphthalene in Process Area
(towards Turtle River)

Data Input Instructions:

- 1. Enter value directly....or
- 2. Calculate by filling in grey cells below. (To restore formulas, hit button below).
- Variable* → Data used directly in model.
- 20 → Value calculated by model. (Don't enter any data).

5. GENERAL

Modeled Area Length*	700	(ft)
Modeled Area Width*	1100	(ft)
Simulation Time*	160	(yr)

6. SOURCE DATA

Source Thickness in Sat.Zone* 5 (ft)

Source Zones:

Width* (ft)	Conc. (mg/L)*
70	0.05
150	2
200	4.8
600	2
80	0.05

Source Halflife (see Help):

Infinite	Infinite	(yr)
Inst. React.	1st Order	
Soluble Mass	Infinite	(Kg)

In Source NAPL, Soil

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths

View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	4.8										
Dist. from Source (ft)	0	70	140	210	280	350	420	490	560	630	700

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN

RUN ARRAY

View Output

Help

Recalculate

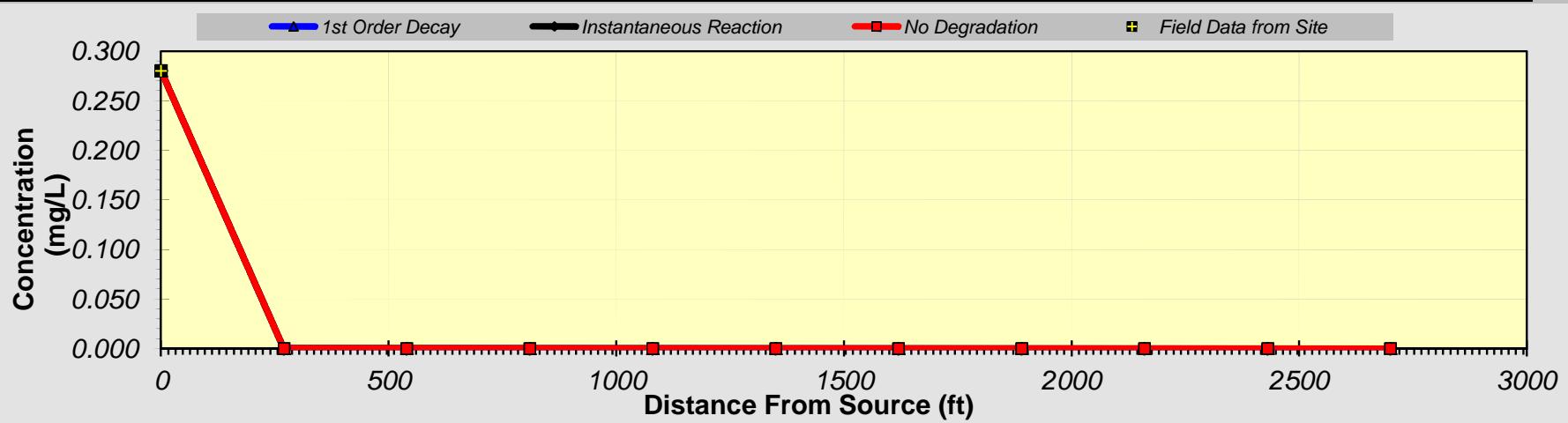
Paste Example Dataset

Restore Formulas for Vs,

PHENANTHRENE CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

Distance from Source (ft)

TYPE OF MODEL	0	270	540	810	1080	1350	1620	1890	2160	2430	2700
No Degradation	0.280	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1st Order Decay	0.280	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	0.280	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Field Data from Site	0.280										



**Calculate
Animation**

Time:

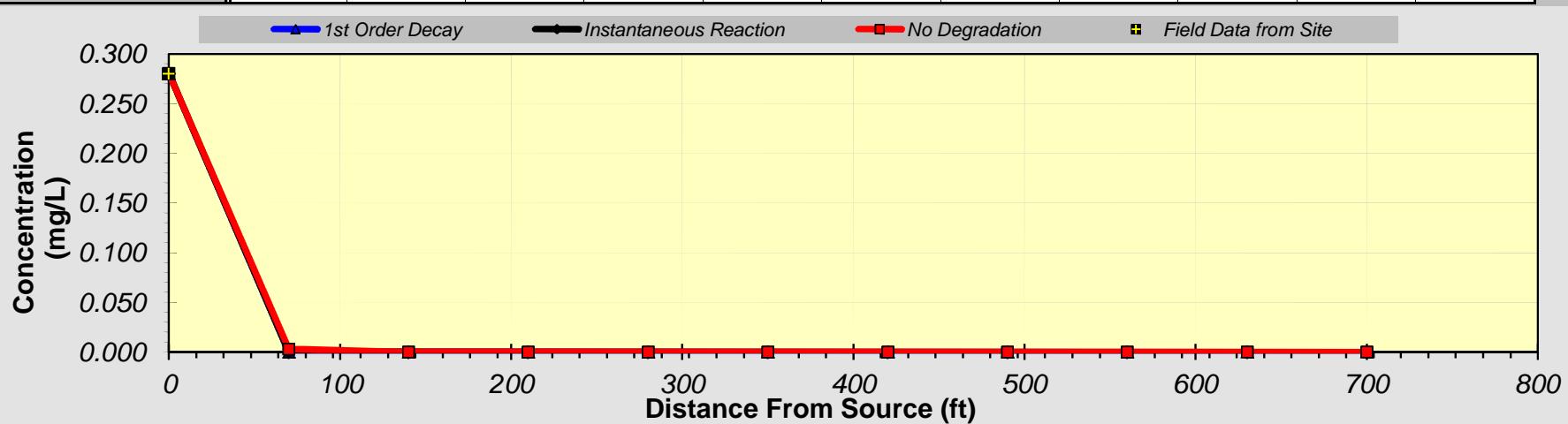
10,000 Years

[Return to](#)

[Recalculate This](#)

PHENANTHRENE CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft)										
	0	70	140	210	280	350	420	490	560	630	700
No Degradation	0.280	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1st Order Decay	0.280	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	0.280	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Field Data from Site	0.280										



Calculate
Animation

Time:

10,000 Years

Return to

Recalculate This

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence

Version 1.4

1. HYDROGEOLOGY

Seepage Velocity*	Vs	33.2	(ft/yr)
or		1.15 or 0.02	
Hydraulic Conductivity	K	1.5E-03	(cm/sec)
Hydraulic Gradient	i	0.0063	(ft/ft)
Porosity	n	0.3	(-)

2. DISPERSION

Longitudinal Dispersivity*	alpha x	17.9	(ft)
Transverse Dispersivity*	alpha y	1.8	(ft)
Vertical Dispersivity*	alpha z	0.0	(ft)
or		1.8 or 0.0	
Estimated Plume Length	Lp	500	(ft)

3. ADSORPTION

Retardation Factor*	R	20967.7	(-)
or		1.8 or 0.0	
Soil Bulk Density	rho	1.7	(kg/l)
Partition Coefficient	Koc	3700	(L/kg)
FractionOrganicCarbon	foc	1.0E+0	(-)

4. BIODEGRADATION

1st Order Decay Coeff*	lambda	1.3E+0	(per yr)
or		1.8 or 0.0	
Solute Half-Life	t-half	1	(year)
or Instantaneous Reaction Model			
Delta Oxygen*	DO	5.78	(mg/L)
Delta Nitrate*	NO3	17	(mg/L)
Observed Ferrous Iron*	Fe2+	11.3	(mg/L)
Delta Sulfate*	SO4	100	(mg/L)
Observed Methane*	CH4	0.414	(mg/L)

Brunswick Cellulose

Phenanthrene in Process
Area (towards Turtle River)

Data Input Instructions:

- 1. Enter value directly....or
- 2. Calculate by filling in grey cells below. (To restore formulas, hit button below).
- Variable* → Data used directly in model.
- 20 → Value calculated by model. (Don't enter any data).

5. GENERAL

Modeled Area Length*	700	(ft)
Modeled Area Width*	800	(ft)
Simulation Time*	10000	(yr)

6. SOURCE DATA

Source Thickness in Sat.Zone* 5 (ft)

Source Zones:

Width* (ft)	Conc. (mg/L)*
120	0.5
40	0.15
100	0.28
390	0.15
150	0.5

Source Halflife (see Help):

Infinite	Infinite	(yr)
Inst. React.	1st Order	
Soluble Mass	Infinite	(Kg)

In Source NAPL, Soil

Vertical Plane Source: Look at Plume Cross-Section
and Input Concentrations & Widths

View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	.28								.0		
Dist. from Source (ft)	0	70	140	210	280	350	420	490	560	630	700

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN

RUN ARRAY

View Output

Help

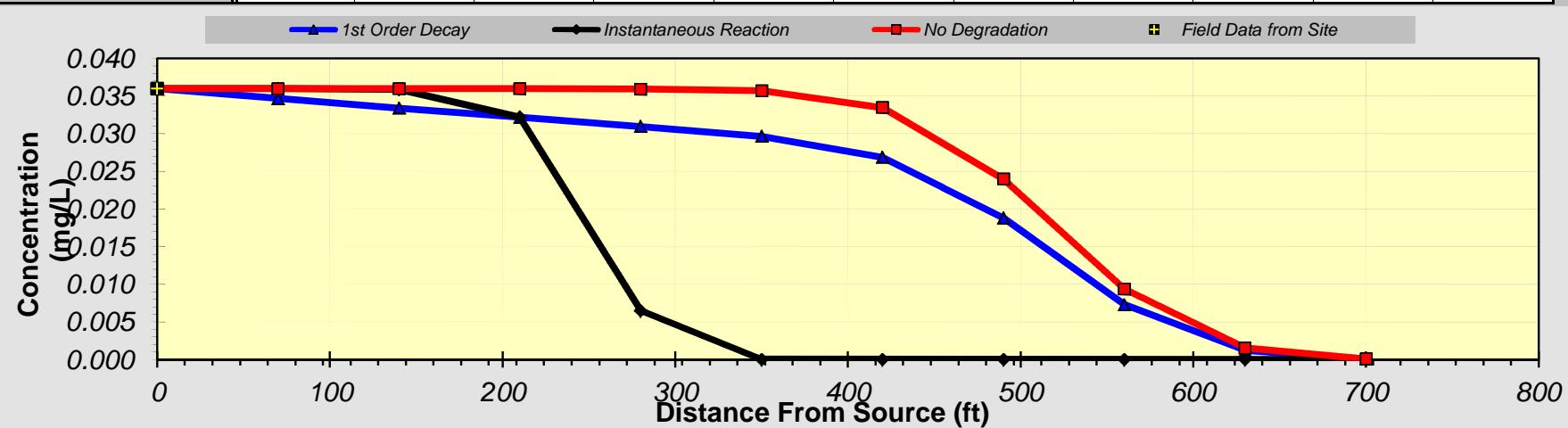
Recalculate

Paste Example Dataset

Restore Formulas for Vs,

ANTIMONY (PROCESS AREA) CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft)										
	0	70	140	210	280	350	420	490	560	630	700
No Degradation	0.036	0.036	0.036	0.036	0.036	0.036	0.033	0.024	0.009	0.002	0.000
1st Order Decay	0.036	0.035	0.033	0.032	0.031	0.030	0.027	0.019	0.007	0.001	0.000
Inst. Reaction	0.036	0.036	0.036	0.032	0.006	0.000	0.000	0.000	0.000	0.000	0.000
Field Data from Site	0.036										



Calculate
Animation

Time:
4,000 Years

Return to

Recalculate This

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence

Version 1.4

1. HYDROGEOLOGY

Seepage Velocity*	Vs	33.2	(ft/yr)
or		↑ or	
Hydraulic Conductivity	K	1.5E-03	(cm/sec)
Hydraulic Gradient	i	0.0063	(ft/ft)
Porosity	n	0.3	(-)

2. DISPERSION

Longitudinal Dispersivity*	alpha x	4.1	(ft)
Transverse Dispersivity*	alpha y	0.4	(ft)
Vertical Dispersivity*	alpha z	0.0	(ft)
or		↑ or	
Estimated Plume Length	Lp	50	(ft)

3. ADSORPTION

Retardation Factor*	R	256.0	(-)
or		↑ or	
Soil Bulk Density	rho	1.7	(kg/l)
Partition Coefficient	Koc	45	(L/kg)
FractionOrganicCarbon	foc	1.0E+0	(-)

4. BIODEGRADATION

1st Order Decay Coeff*	lambda	6.9E-5	(per yr)
or		↑ or	
Solute Half-Life	t-half	10000	(year)
or Instantaneous Reaction Model			
Delta Oxygen*	DO	5.78	(mg/L)
Delta Nitrate*	NO3	17	(mg/L)
Observed Ferrous Iron*	Fe2+	11.3	(mg/L)
Delta Sulfate*	SO4	100	(mg/L)
Observed Methane*	CH4	0.414	(mg/L)

Brunswick Cellulose

Antimony in Process Area
(towards Turtle River)

Data Input Instructions:

- 115 → 1. Enter value directly....or
- or → 2. Calculate by filling in grey cells below. (To restore formulas, hit button below).
- 0.02 → Variable* → Data used directly in model.
- 20 → Value calculated by model. (Don't enter any data).

5. GENERAL

Modeled Area Length*	700	(ft)
Modeled Area Width*	150	(ft)
Simulation Time*	4000	(yr)

6. SOURCE DATA

Source Thickness in Sat.Zone* 5 (ft)

Source Zones:

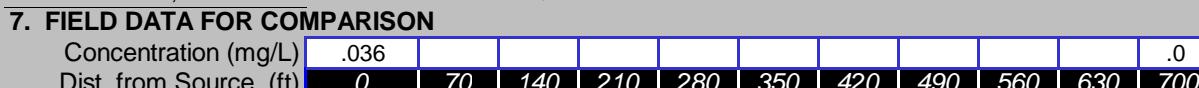
Width* (ft)	Conc. (mg/L)*
25	0
25	0
100	0.036
25	0
25	0

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths

Source Halflife (see Help):

Infinite	Infinite	(yr)
Inst. React.	1st Order	
Soluble Mass	Infinite	(Kg)

In Source NAPL, Soil



7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	.036								.0		
Dist. from Source (ft)	0	70	140	210	280	350	420	490	560	630	700

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN

RUN ARRAY

View Output

Help

Recalculate

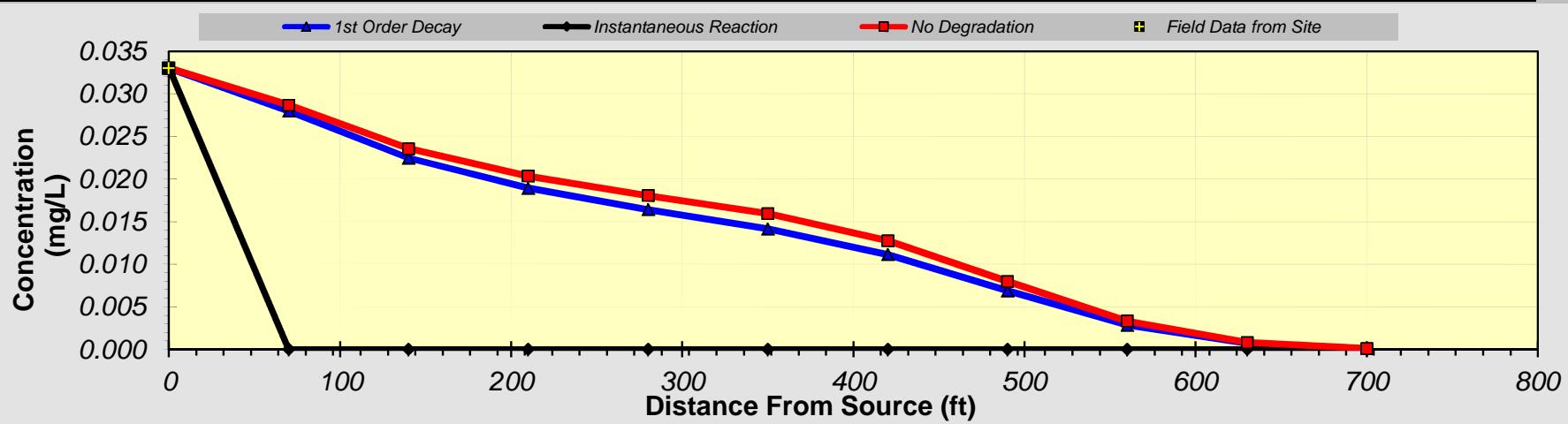
Paste Example Dataset

Restore Formulas for Vs,

ARSENIC CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

Distance from Source (ft)

TYPE OF MODEL	0	70	140	210	280	350	420	490	560	630	700
No Degradation	0.033	0.029	0.024	0.020	0.018	0.016	0.013	0.008	0.003	0.001	0.000
1st Order Decay	0.033	0.028	0.022	0.019	0.016	0.014	0.011	0.007	0.003	0.001	0.000
Inst. Reaction	0.033	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Field Data from Site	0.033										



**Calculate
Animation**

Time:

2,500 Years

[Return to](#)

[Recalculate This](#)

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence

Version 1.4

1. HYDROGEOLOGY

Seepage Velocity*	Vs	33.2	(ft/yr)
or		↑ or	
Hydraulic Conductivity	K	1.5E-03	(cm/sec)
Hydraulic Gradient	i	0.0063	(ft/ft)
Porosity	n	0.3	(-)

2. DISPERSION

Longitudinal Dispersivity*	alpha x	7.1	(ft)
Transverse Dispersivity*	alpha y	0.7	(ft)
Vertical Dispersivity*	alpha z	0.0	(ft)
or		↑ or	
Estimated Plume Length	Lp	100	(ft)

3. ADSORPTION

Retardation Factor*	R	165.3	(-)
or		↑ or	
Soil Bulk Density	rho	1.7	(kg/l)
Partition Coefficient	Koc	29	(L/kg)
FractionOrganicCarbon	foc	1.0E+0	(-)

4. BIODEGRADATION

1st Order Decay Coeff*	lambda	6.9E-5	(per yr)
or		↑ or	
Solute Half-Life	t-half	10000	(year)
or Instantaneous Reaction Model			
Delta Oxygen*	DO	5.78	(mg/L)
Delta Nitrate*	NO3	17	(mg/L)
Observed Ferrous Iron*	Fe2+	11.3	(mg/L)
Delta Sulfate*	SO4	100	(mg/L)
Observed Methane*	CH4	0.414	(mg/L)

Brunswick Cellulose

Arsenic in Process Area
(towards Turtle River)

Data Input Instructions:

- 115 → 1. Enter value directly....or
- or → 2. Calculate by filling in grey cells below. (To restore formulas, hit button below).
- 0.02 → Variable* → Data used directly in model.
- 20 → Value calculated by model. (Don't enter any data).

5. GENERAL

Modeled Area Length*	700	(ft)
Modeled Area Width*	150	(ft)
Simulation Time*	2500	(yr)

6. SOURCE DATA

Source Thickness in Sat.Zone* 5 (ft)

Source Zones:

Width* (ft)	Conc. (mg/L)*
30	0
30	0
30	0.033
30	0
30	0

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths

Source Halflife (see Help):

Infinite	Infinite	(yr)
Inst. React.	1st Order	
Soluble Mass	Infinite	(Kg)
In Source NAPL, Soil		

View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	.033								.0		
Dist. from Source (ft)	0	70	140	210	280	350	420	490	560	630	700

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN

RUN ARRAY

View Output

Help

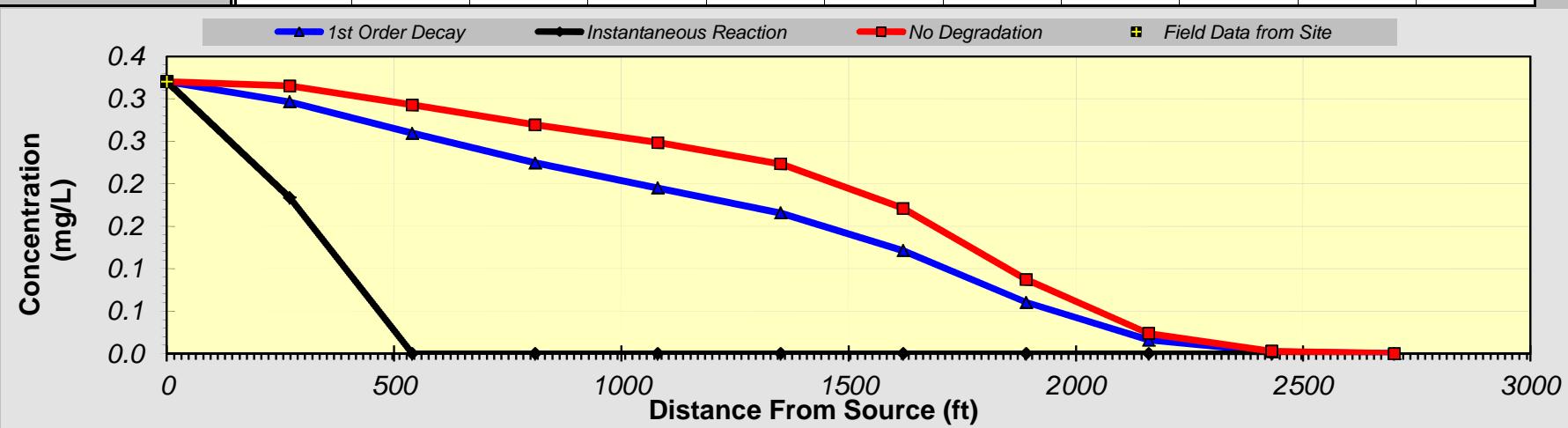
Recalculate

Paste Example Dataset

Restore Formulas for Vs,

CHROMIUM (PROCESS AREA) CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft)										
	0	270	540	810	1080	1350	1620	1890	2160	2430	2700
No Degradation	0.320	0.315	0.293	0.269	0.249	0.223	0.171	0.087	0.024	0.003	0.000
1st Order Decay	0.320	0.296	0.259	0.224	0.195	0.166	0.121	0.060	0.016	0.002	0.000
Inst. Reaction	0.320	0.184	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Field Data from Site	0.320										



Replay Animation

Next Timestep

Prev Timestep

Time:

6,000 Years

Return to

Recalculate This

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence

Version 1.4

1. HYDROGEOLOGY

Seepage Velocity*	Vs	33.2	(ft/yr)
or		1.5E-03	(cm/sec)
Hydraulic Conductivity	K	1.5E-03	(cm/sec)
Hydraulic Gradient	i	0.0063	(ft/ft)
Porosity	n	0.3	(-)

2. DISPERSION

Longitudinal Dispersivity*	alpha x	21.0	(ft)
Transverse Dispersivity*	alpha y	2.1	(ft)
Vertical Dispersivity*	alpha z	0.0	(ft)
or		1.5E-03	(cm/sec)
Estimated Plume Length	Lp	700	(ft)

3. ADSORPTION

Retardation Factor*	R	108.7	(-)
or		1.5E-03	(cm/sec)
Soil Bulk Density	rho	1.7	(kg/l)
Partition Coefficient	Koc	19	(L/kg)
FractionOrganicCarbon	foc	1.0E+0	(-)

4. BIODEGRADATION

1st Order Decay Coeff*	lambda	6.9E-5	(per yr)
or		1.5E-03	(cm/sec)
Solute Half-Life	t-half	10000	(year)
or Instantaneous Reaction Model			
Delta Oxygen*	DO	5.78	(mg/L)
Delta Nitrate*	NO3	17	(mg/L)
Observed Ferrous Iron*	Fe2+	11.3	(mg/L)
Delta Sulfate*	SO4	100	(mg/L)
Observed Methane*	CH4	0.414	(mg/L)

Brunswick Cellulose
Chromium in Process Area
(Eastern Property Boundary)

Data Input Instructions:

- 1. Enter value directly....or
 or
- 2. Calculate by filling in grey cells below. (To restore formulas, hit button below).
- Variable* Data used directly in model.
- 20 Value calculated by model. (Don't enter any data).

5. GENERAL

Modeled Area Length*	2700	(ft)
Modeled Area Width*	900	(ft)
Simulation Time*	6000	(yr)

6. SOURCE DATA

Source Thickness in Sat.Zone* 5 (ft)

Source Zones:

Width* (ft)	Conc. (mg/L)*
10	0.05
10	0.2
150	0.32
600	0.2
130	0.05

Source Halflife (see Help):

Infinite	Infinite	(yr)
Inst. React.	1st Order	
Soluble Mass	Infinite	(Kg)
In Source NAPL, Soil		

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths

View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	.32								.0		
Dist. from Source (ft)	0	270	540	810	1080	1350	1620	1890	2160	2430	2700

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN

RUN ARRAY

View Output

Help

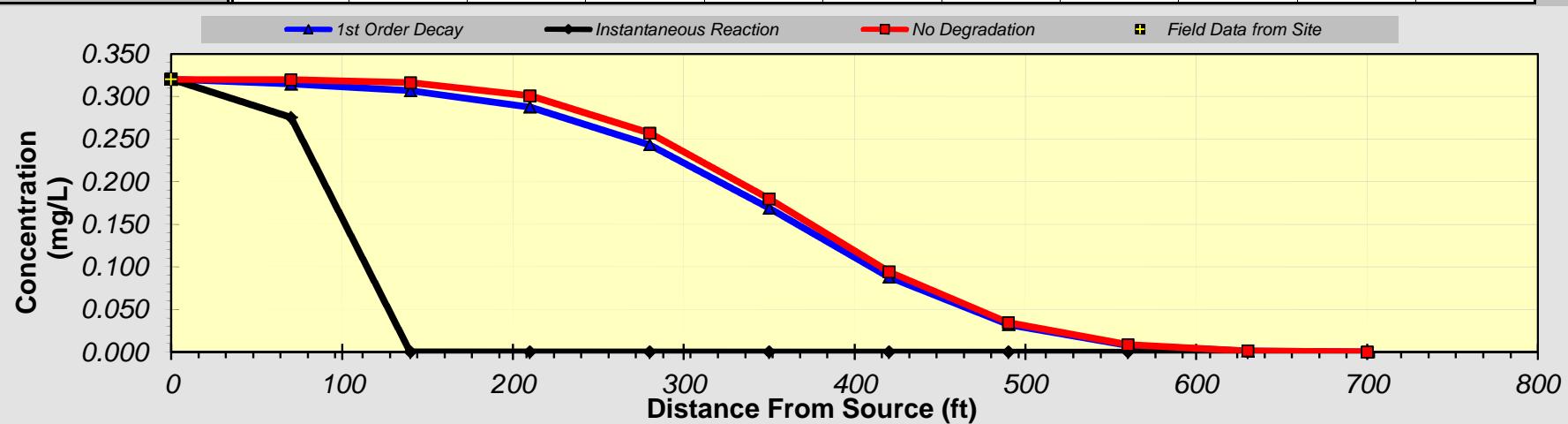
Recalculate

Paste Example Dataset

Restore Formulas for Vs,

CHROMIUM (PROCESS AREA) CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft)										
	0	70	140	210	280	350	420	490	560	630	700
No Degradation	0.320	0.319	0.316	0.301	0.257	0.180	0.094	0.035	0.009	0.001	0.000
1st Order Decay	0.320	0.315	0.306	0.288	0.243	0.169	0.088	0.032	0.008	0.001	0.000
Inst. Reaction	0.320	0.275	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Field Data from Site	0.320										



Calculate
Animation

Time:

1,200 Years

Return to

Recalculate This

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence

Version 1.4

1. HYDROGEOLOGY

Seepage Velocity*	Vs	33.2	(ft/yr)
or		1.5E-03	(cm/sec)
Hydraulic Conductivity	K	1.5E-03	(cm/sec)
Hydraulic Gradient	i	0.0063	(ft/ft)
Porosity	n	0.3	(-)

2. DISPERSION

Longitudinal Dispersivity*	alpha x	13.8	(ft)
Transverse Dispersivity*	alpha y	1.4	(ft)
Vertical Dispersivity*	alpha z	0.0	(ft)
or		1.4	(ft)
Estimated Plume Length	Lp	300	(ft)

3. ADSORPTION

Retardation Factor*	R	108.7	(-)
or		1.7	(kg/l)
Soil Bulk Density	rho	1.7	(kg/l)
Partition Coefficient	Koc	19	(L/kg)
FractionOrganicCarbon	foc	1.0E+0	(-)

4. BIODEGRADATION

1st Order Decay Coeff*	lambda	6.9E-5	(per yr)
or		10000	(year)
Solute Half-Life	t-half	10000	(year)
or Instantaneous Reaction Model			
Delta Oxygen*	DO	5.78	(mg/L)
Delta Nitrate*	NO3	17	(mg/L)
Observed Ferrous Iron*	Fe2+	11.3	(mg/L)
Delta Sulfate*	SO4	100	(mg/L)
Observed Methane*	CH4	0.414	(mg/L)

Brunswick Cellulose
Chromium in Process Area
(towards Turtle River)

Data Input Instructions:

- 1. Enter value directly....or
 or
- 2. Calculate by filling in grey cells below. (To restore formulas, hit button below).
- Variable* Data used directly in model.
- 20 Value calculated by model. (Don't enter any data).

5. GENERAL

Modeled Area Length*	700	(ft)
Modeled Area Width*	900	(ft)
Simulation Time*	1200	(yr)

6. SOURCE DATA

Source Thickness in Sat.Zone* 5 (ft)

Source Zones:

Width* (ft)	Conc. (mg/L)*
10	0.05
10	0.2
150	0.32
500	0.2
130	0.05

Source Halflife (see Help):

Infinite	Infinite	(yr)
Inst. React.	1st Order	
Soluble Mass	Infinite	(Kg)
In Source NAPL, Soil		

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths

View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	.32								.0		
Dist. from Source (ft)	0	70	140	210	280	350	420	490	560	630	700

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN

RUN ARRAY

View Output

Help

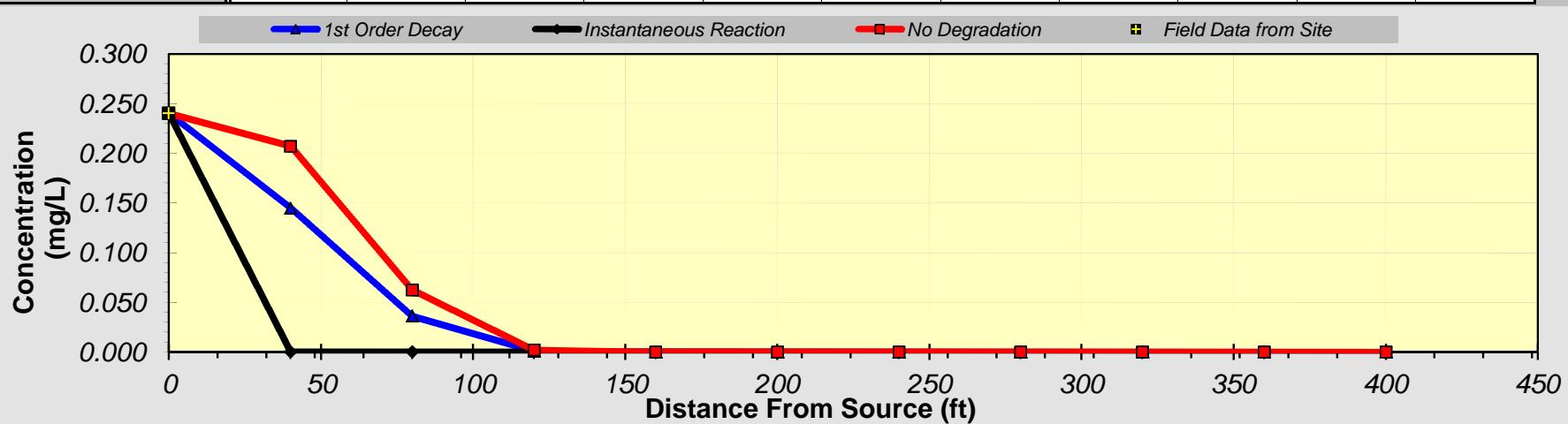
Recalculate

Paste Example Dataset

Restore Formulas for Vs,

LEAD CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft)										
	0	40	80	120	160	200	240	280	320	360	400
No Degradation	0.240	0.207	0.062	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1st Order Decay	0.240	0.145	0.036	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	0.240	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Field Data from Site	0.240										



Calculate
Animation

Time:

10,000 Years

Return to

Recalculate This

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence

Version 1.4

1. HYDROGEOLOGY

Seepage Velocity*	Vs	33.2	(ft/yr)
or		↑ or	
Hydraulic Conductivity	K	1.5E-03	(cm/sec)
Hydraulic Gradient	i	0.0063	(ft/ft)
Porosity	n	0.3	(-)

2. DISPERSION

Longitudinal Dispersivity*	alpha x	4.1	(ft)
Transverse Dispersivity*	alpha y	0.4	(ft)
Vertical Dispersivity*	alpha z	0.0	(ft)
or		↑ or	
Estimated Plume Length	Lp	50	(ft)

3. ADSORPTION

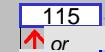
Retardation Factor*	R	5101.0	(-)
or		↑ or	
Soil Bulk Density	rho	1.7	(kg/l)
Partition Coefficient	Koc	900	(L/kg)
FractionOrganicCarbon	foc	1.0E+0	(-)

4. BIODEGRADATION

1st Order Decay Coeff*	lambda	6.9E-5	(per yr)
or		↑ or	
Solute Half-Life	t-half	10000	(year)
or Instantaneous Reaction Model			
Delta Oxygen*	DO	5.78	(mg/L)
Delta Nitrate*	NO3	17	(mg/L)
Observed Ferrous Iron*	Fe2+	11.3	(mg/L)
Delta Sulfate*	SO4	100	(mg/L)
Observed Methane*	CH4	0.414	(mg/L)

Brunswick Cellulose
Lead in Process Area (towards
Turtle River)

Data Input Instructions:

- 1. Enter value directly....or
 or

- 2. Calculate by filling in grey
cells below. (To restore
formulas, hit button below).
- Variable* → Data used directly in model.
- 20 → Value calculated by model.
(Don't enter any data).

5. GENERAL

Modeled Area Length*	400	(ft)
Modeled Area Width*	100	(ft)
Simulation Time*	10000	(yr)

6. SOURCE DATA

Source Thickness in Sat.Zone* 5 (ft)

Source Zones:

Width* (ft)	Conc. (mg/L)*
20	0
20	0
100	0.24
20	0
20	0

Vertical Plane Source: Look at Plume Cross-Section
and Input Concentrations & Widths

Source Halflife (see Help):

Infinite	Infinite	(yr)
Inst. React.	1st Order	
Soluble Mass	Infinite	(Kg)

In Source NAPL, Soil

View of Plume Looking Down
Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	.24								.0		
Dist. from Source (ft)	0	40	80	120	160	200	240	280	320	360	400

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN

RUN ARRAY

View Output

Help

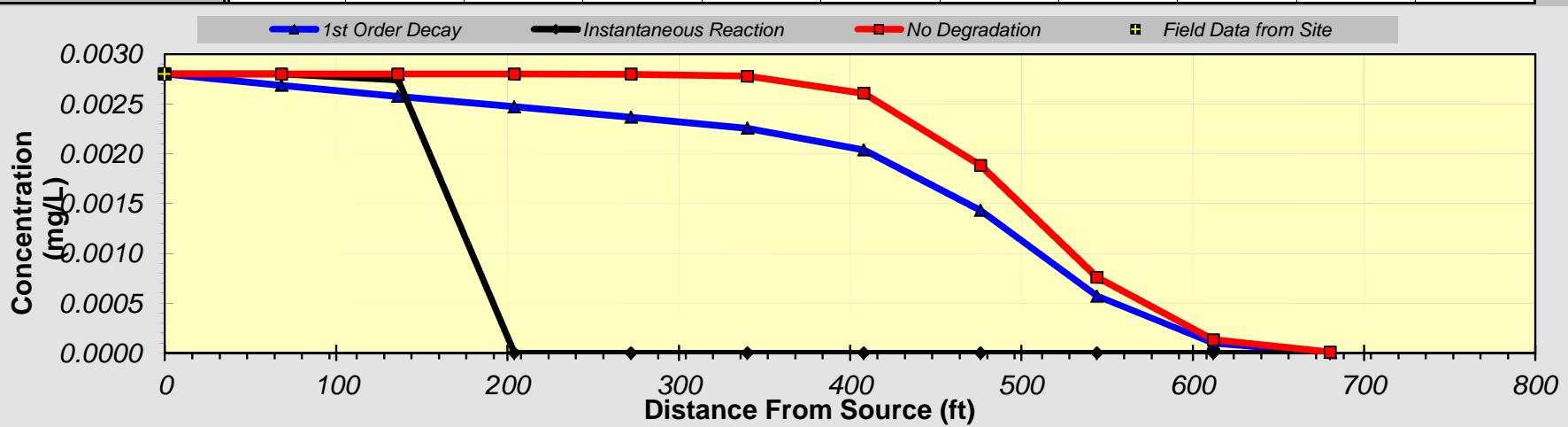
Recalculate

Paste Example Dataset

Restore Formulas for Vs,

MERCURY CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft)										
	0	68	136	204	272	340	408	476	544	612	680
No Degradation	0.0028	0.0028	0.0028	0.0028	0.0028	0.0028	0.0026	0.0019	0.0008	0.0001	0.0000
1st Order Decay	0.0028	0.0027	0.0026	0.0025	0.0024	0.0023	0.0020	0.0014	0.0006	0.0001	0.0000
Inst. Reaction	0.0028	0.0028	0.0027	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Field Data from Site	0.0028										



Calculate
Animation

Time:

4,500 Years

Return to

Recalculate This

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence

Version 1.4

1. HYDROGEOLOGY

Seepage Velocity*	Vs	33.2	(ft/yr)
or		↑ or	
Hydraulic Conductivity	K	1.5E-03	(cm/sec)
Hydraulic Gradient	i	0.0063	(ft/ft)
Porosity	n	0.3	(-)

2. DISPERSION

Longitudinal Dispersivity*	alpha x	4.1	(ft)
Transverse Dispersivity*	alpha y	0.4	(ft)
Vertical Dispersivity*	alpha z	0.0	(ft)
or		↑ or	
Estimated Plume Length	Lp	50	(ft)

3. ADSORPTION

Retardation Factor*	R	295.7	(-)
or		↑ or	
Soil Bulk Density	rho	1.7	(kg/l)
Partition Coefficient	Koc	52	(L/kg)
FractionOrganicCarbon	foc	1.0E+0	(-)

4. BIODEGRADATION

1st Order Decay Coeff*	lambda	6.9E-5	(per yr)
or		↑ or	
Solute Half-Life	t-half	10000	(year)
or Instantaneous Reaction Model			
Delta Oxygen*	DO	5.78	(mg/L)
Delta Nitrate*	NO3	17	(mg/L)
Observed Ferrous Iron*	Fe2+	11.3	(mg/L)
Delta Sulfate*	SO4	100	(mg/L)
Observed Methane*	CH4	0.414	(mg/L)

Brunswick Cellulose

Mercury in Process Area
(towards Turtle River)

Data Input Instructions:

- 1. Enter value directly....or
- 2. Calculate by filling in grey cells below. (To restore formulas, hit button below).
- Variable* → Data used directly in model.
- 20 → Value calculated by model. (Don't enter any data).

5. GENERAL

Modeled Area Length*	680	(ft)
Modeled Area Width*	100	(ft)
Simulation Time*	4500	(yr)

6. SOURCE DATA

Source Thickness in Sat.Zone* 5 (ft)

Source Zones:

Width* (ft)	Conc. (mg/L)*
20	0
20	0
100	0.0028
20	0
20	0

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths

Source Halflife (see Help):

Infinite	Infinite	(yr)
Inst. React.	1st Order	
Soluble Mass	Infinite	(Kg)
In Source NAPL, Soil		

View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	.003								.0		
Dist. from Source (ft)	0	68	136	204	272	340	408	476	544	612	680

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN

RUN ARRAY

View Output

Help

Recalculate

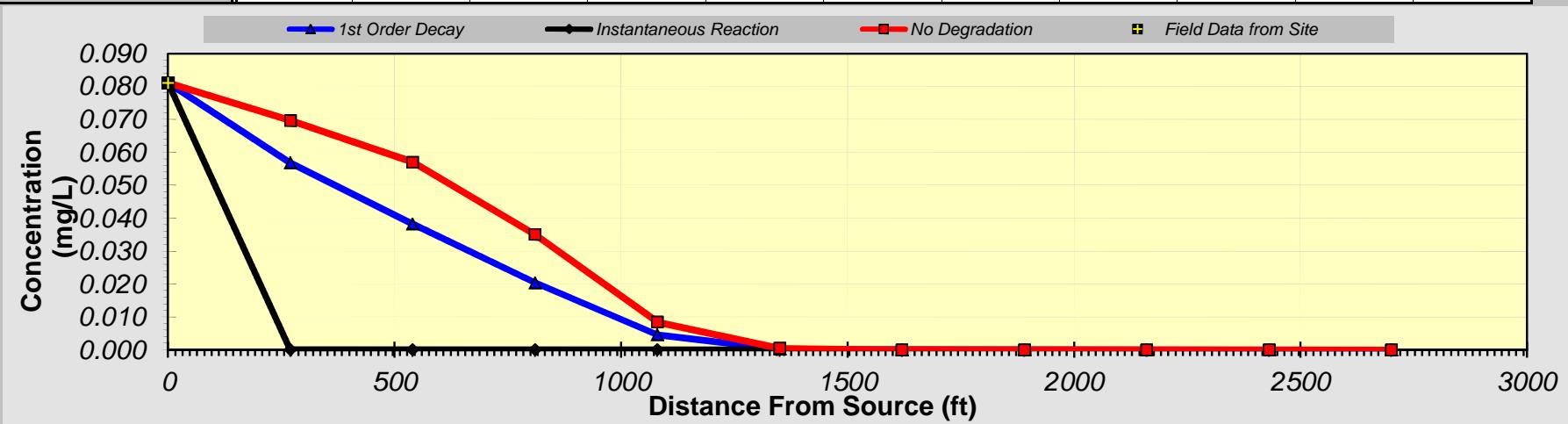
Paste Example Dataset

Restore Formulas for Vs,

NICKEL CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

Distance from Source (ft)

TYPE OF MODEL	0	270	540	810	1080	1350	1620	1890	2160	2430	2700
No Degradation	0.081	0.070	0.057	0.035	0.008	0.000	0.000	0.000	0.000	0.000	0.000
1st Order Decay	0.081	0.057	0.038	0.020	0.005	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	0.081	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<i>Field Data from Site</i>	0.081										



**Calculate
Animation**

Time:

10,000 Years

[Return to](#)

[Recalculate This](#)

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence

Version 1.4

1. HYDROGEOLOGY

Seepage Velocity*	Vs	33.2	(ft/yr)
or		↑ or	
Hydraulic Conductivity	K	1.5E-03	(cm/sec)
Hydraulic Gradient	i	0.0063	(ft/ft)
Porosity	n	0.3	(-)

2. DISPERSION

Longitudinal Dispersivity*	alpha x	21.6	(ft)
Transverse Dispersivity*	alpha y	2.2	(ft)
Vertical Dispersivity*	alpha z	0.0	(ft)
or		↑ or	
Estimated Plume Length	Lp	750	(ft)

3. ADSORPTION

Retardation Factor*	R	369.3	(-)
or		↑ or	
Soil Bulk Density	rho	1.7	(kg/l)
Partition Coefficient	Koc	65	(L/kg)
FractionOrganicCarbon	foc	1.0E+0	(-)

4. BIODEGRADATION

1st Order Decay Coeff*	lambda	6.9E-5	(per yr)
or		↑ or	
Solute Half-Life	t-half	10000	(year)
or Instantaneous Reaction Model			
Delta Oxygen*	DO	5.78	(mg/L)
Delta Nitrate*	NO3	17	(mg/L)
Observed Ferrous Iron*	Fe2+	11.3	(mg/L)
Delta Sulfate*	SO4	100	(mg/L)
Observed Methane*	CH4	0.414	(mg/L)

Brunswick Cellulose

Nickel in Process Area
(Eastern Property Boundary)

Data Input Instructions:

- 115 → 1. Enter value directly....or
- or → 2. Calculate by filling in grey cells below. (To restore formulas, hit button below).
- 0.02 → Variable* → Data used directly in model.
- 20 → Value calculated by model. (Don't enter any data).

5. GENERAL

Modeled Area Length*	2700	(ft)
Modeled Area Width*	900	(ft)
Simulation Time*	10000	(yr)

6. SOURCE DATA

Source Thickness in Sat.Zone* 5 (ft)

Source Zones:

Width* (ft)	Conc. (mg/L)*
20	0.007
30	0.04
80	0.081
720	0.04
50	0.007

Source Halflife (see Help):

Infinite	Infinite	(yr)
Inst. React.	1st Order	
Soluble Mass	Infinite	(Kg)
In Source NAPL, Soil		

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	.081								.0		
Dist. from Source (ft)	0	270	540	810	1080	1350	1620	1890	2160	2430	2700

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN

RUN ARRAY

View Output

View Output

Help

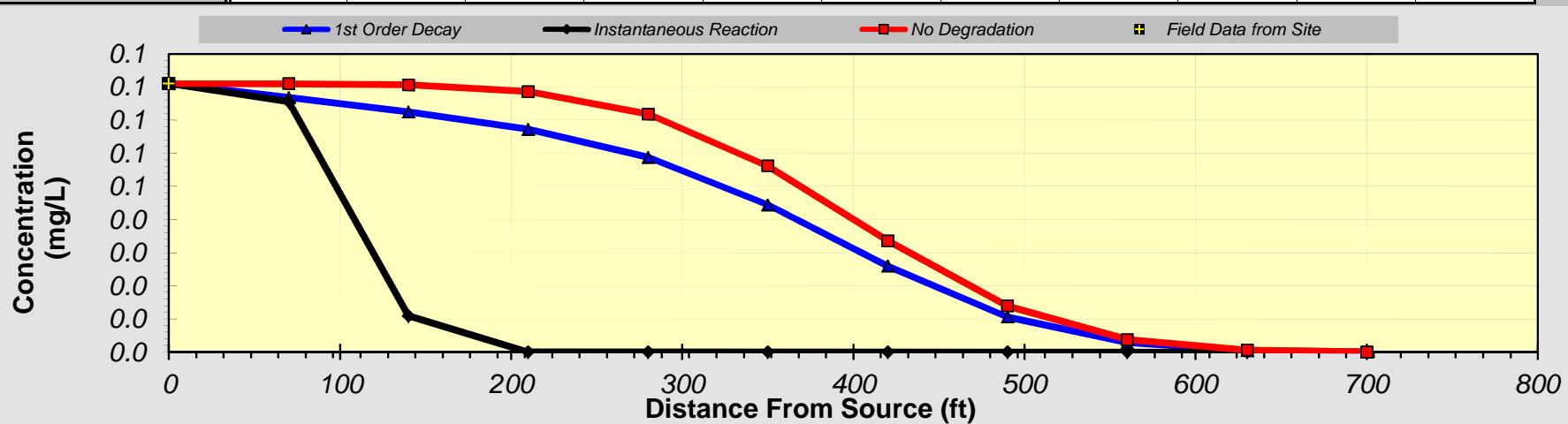
Recalculate

Paste Example Dataset

Restore Formulas for Vs,

NICKEL CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft)										
	0	70	140	210	280	350	420	490	560	630	700
No Degradation	0.081	0.081	0.081	0.079	0.072	0.056	0.034	0.014	0.004	0.001	0.000
1st Order Decay	0.081	0.077	0.072	0.067	0.059	0.044	0.026	0.011	0.003	0.000	0.000
Inst. Reaction	0.081	0.076	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Field Data from Site	0.081										



Replay
Animation

Next Timestep

Prev Timestep

Time:

4,500 Years

Return to

Recalculate This

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence

Version 1.4

1. HYDROGEOLOGY

Seepage Velocity*	Vs	33.2	(ft/yr)
or		1.15 or 0.02	
Hydraulic Conductivity	K	1.5E-03	(cm/sec)
Hydraulic Gradient	i	0.0063	(ft/ft)
Porosity	n	0.3	(-)

2. DISPERSION

Longitudinal Dispersivity*	alpha x	11.0	(ft)
Transverse Dispersivity*	alpha y	1.1	(ft)
Vertical Dispersivity*	alpha z	0.0	(ft)
or		1.15 or 0.02	
Estimated Plume Length	Lp	200	(ft)

3. ADSORPTION

Retardation Factor*	R	369.3	(-)
or		1.15 or 0.02	
Soil Bulk Density	rho	1.7	(kg/l)
Partition Coefficient	Koc	65	(L/kg)
FractionOrganicCarbon	foc	1.0E+0	(-)

4. BIODEGRADATION

1st Order Decay Coeff*	lambda	6.9E-5	(per yr)
or		1.15 or 0.02	
Solute Half-Life	t-half	10000	(year)
or Instantaneous Reaction Model			
Delta Oxygen*	DO	5.78	(mg/L)
Delta Nitrate*	NO3	17	(mg/L)
Observed Ferrous Iron*	Fe2+	11.3	(mg/L)
Delta Sulfate*	SO4	100	(mg/L)
Observed Methane*	CH4	0.414	(mg/L)

Brunswick Cellulose
Nickel in Process Area
(towards Turtle River)

Data Input Instructions:

- 1. Enter value directly....or
 or
- 2. Calculate by filling in grey cells below. (To restore formulas, hit button below).
- Variable* Data used directly in model.
- 20 Value calculated by model. (Don't enter any data).

5. GENERAL

Modeled Area Length*	700	(ft)
Modeled Area Width*	900	(ft)
Simulation Time*	4500	(yr)

6. SOURCE DATA

Source Thickness in Sat.Zone* 5 (ft)

Source Zones:

Width* (ft)	Conc. (mg/L)*
30	0.007
40	0.04
100	0.081
700	0.04
30	0.007

Source Halflife (see Help):

Infinite	Infinite	(yr)
Inst. React.	1st Order	
Soluble Mass	Infinite	(Kg)
In Source NAPL, Soil		

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths

View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	.081								.0		
Dist. from Source (ft)	0	70	140	210	280	350	420	490	560	630	700

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN

RUN ARRAY

View Output

Help

Recalculate

Paste Example Dataset

Restore Formulas for Vs,

Stephanie Saia

From: Watson, Brian <brian.watson@tetrtech.com>
Sent: Wednesday, March 13, 2013 12:53 PM
To: Stephanie Saia
Subject: RE: Turtle River Flow Rate

Stephanie,

Let me know if you have issues. I sent you the entire watershed flow for the Turtle River, and there is a potential that you may have needed less.

Brian

Brian J. Watson, PE, PH | Director, Water Resources Group
Main: 770.850.0949 | Direct: 770.738.6030 | Fax: 770.850.0950 brian.watson@tetrtech.com

Tetra Tech | Complex World, Clear Solutions www.tetrtech.com | NASDAQ:TTEK
2110 Powers Ferry Road SE, Suite 202 | Atlanta, GA 30339 PLEASE NOTE: This message, including any attachments, may include privileged, confidential and/or inside information. Any distribution or use of this communication by anyone other than the intended recipient is strictly prohibited and may be unlawful. If you are not the intended recipient, please notify the sender by replying to this message and then delete it from your system.

-----Original Message-----

From: Stephanie Saia [<mailto:ssaia@earthcon.com>]
Sent: Wednesday, March 13, 2013 12:27 PM
To: Watson, Brian
Subject: RE: Turtle River Flow Rate

Brian,

Thank you so much for your help.

Stephanie

-----Original Message-----

From: Watson, Brian [<mailto:brian.watson@tetrtech.com>]
Sent: Wednesday, March 13, 2013 9:54 AM
To: ssaia@earthcon.com
Cc: Elizabeth Booth
Subject: RE: Turtle River Flow Rate

Stephanie,

Per our conversation yesterday, here is a timeseries of Turtle River Flows from January 1, 1998 through December 31, 2007. If you need anything else, please let me know.

Brian

Brian J. Watson, PE, PH | Director, Water Resources Group
Main: 770.850.0949 | Direct: 770.738.6030 | Fax: 770.850.0950 brian.watson@tetrtech.com

Tetra Tech | Complex World, Clear Solutions www.tetrtech.com | NASDAQ:TTEK
2110 Powers Ferry Road SE, Suite 202 | Atlanta, GA 30339 PLEASE NOTE: This message, including any attachments, may include privileged, confidential and/or inside information. Any distribution or use of this communication by anyone other than the intended recipient is strictly prohibited and may be unlawful. If you are not the intended recipient, please notify the sender by replying to this message and then delete it from your system.

-----Original Message-----

From: Elizabeth Booth [<mailto:Elizabeth.Booth@dnr.state.ga.us>]
Sent: Monday, March 11, 2013 10:12 AM
To: ssaia@earthcon.com; Watson, Brian
Subject: Fwd: Turtle River Flow Rate

Brian, Can you help Stephanie with the information she is requesting?
Thanks Liz

>>> "Stephanie Saia" <ssaia@earthcon.com> 3/8/2013 2:59 PM >>>
Ms. Booth,

I'm working on some modeling along the Turtle River. I was wondering if you may happen to have a flow rate for the Turtle River that you could possible share with me. I was told you had previously worked on a 4D model on the river and might have that information. Thank you so much for your help.

Thanks,

Stephanie Saia, E.I.T.
Staff Engineer
EarthCon Consultants, Inc.

1880 West Oak Parkway

Bldg. 100, Suite 106
Marietta, GA 30062
Office: 770-973-2100 x2892
Fax: <<tel:770-874-1820>> 770-874-1820

Mobile: 404-955-4650
<<mailto:ssaia@earthcon.com>> ssaia@earthcon.com

www.earthcon.com

Statement of Confidentiality: This email and any attachments transmitted with it are confidential and intended solely for the use of the individual or entity to which they are addressed. The information contained in this email is highly confidential and may be subject to legally enforceable privileges. If you are not the intended recipient, or a person

responsible for delivering it to the intended recipient, you are hereby notified that any disclosure, reliance, copying, distribution, dissemination or use of any of the information contained in or attached to this transmission is STRICTLY PROHIBITED. If you have received this communication in error, please notify EarthCon immediately by replying to this email. Please delete all copies of this message and any attachments immediately.

Turtle River Flow Time Series

Drainage area	Year	Month	Day	Date	Flow (cfs)
49278.251	1998	1	1	1/1/1998	1.71E+02
	1998	1	2	1/2/1998	1.51E+02
	1998	1	3	1/3/1998	1.34E+02
	1998	1	4	1/4/1998	1.19E+02
	1998	1	5	1/5/1998	1.07E+02
	1998	1	6	1/6/1998	9.76E+01
	1998	1	7	1/7/1998	8.73E+01
	1998	1	8	1/8/1998	4.62E+02
	1998	1	9	1/9/1998	2.01E+02
	1998	1	10	1/10/1998	1.57E+02
	1998	1	11	1/11/1998	1.43E+02
	1998	1	12	1/12/1998	1.31E+02
	1998	1	13	1/13/1998	1.20E+02
	1998	1	14	1/14/1998	1.11E+02
	1998	1	15	1/15/1998	1.02E+02
	1998	1	16	1/16/1998	1.72E+02
	1998	1	17	1/17/1998	1.34E+02
	1998	1	18	1/18/1998	1.07E+02
	1998	1	19	1/19/1998	1.09E+02
	1998	1	20	1/20/1998	1.06E+02
	1998	1	21	1/21/1998	9.47E+01
	1998	1	22	1/22/1998	8.84E+01
	1998	1	23	1/23/1998	1.27E+03
	1998	1	24	1/24/1998	3.00E+02
	1998	1	25	1/25/1998	2.25E+02
	1998	1	26	1/26/1998	2.06E+02
	1998	1	27	1/27/1998	1.23E+03
	1998	1	28	1/28/1998	3.50E+02
	1998	1	29	1/29/1998	2.51E+02
	1998	1	30	1/30/1998	2.25E+02
	1998	1	31	1/31/1998	2.00E+02
	1998	2	1	2/1/1998	1.76E+02
	1998	2	2	2/2/1998	1.61E+02
	1998	2	3	2/3/1998	1.54E+02
	1998	2	4	2/4/1998	1.62E+02
	1998	2	5	2/5/1998	1.44E+02
	1998	2	6	2/6/1998	1.23E+02
	1998	2	7	2/7/1998	1.10E+02
	1998	2	8	2/8/1998	9.61E+01
	1998	2	9	2/9/1998	8.03E+01
	1998	2	10	2/10/1998	6.87E+01
	1998	2	11	2/11/1998	6.44E+01
	1998	2	12	2/12/1998	5.56E+01
	1998	2	13	2/13/1998	4.80E+01
	1998	2	14	2/14/1998	4.31E+01
	1998	2	15	2/15/1998	3.50E+01
	1998	2	16	2/16/1998	6.49E+02
	1998	2	17	2/17/1998	5.60E+03
	1998	2	18	2/18/1998	3.77E+02
	1998	2	19	2/19/1998	3.07E+02
	1998	2	20	2/20/1998	2.78E+02
	1998	2	21	2/21/1998	2.47E+02
	1998	2	22	2/22/1998	2.65E+02
	1998	2	23	2/23/1998	4.83E+02
	1998	2	24	2/24/1998	3.98E+02
	1998	2	25	2/25/1998	3.21E+02

1998	2	26	2/26/1998	2.80E+02
1998	2	27	2/27/1998	2.55E+02
1998	2	28	2/28/1998	2.45E+02
1998	3	1	3/1/1998	2.13E+02
1998	3	2	3/2/1998	1.84E+02
1998	3	3	3/3/1998	1.61E+02
1998	3	4	3/4/1998	1.39E+02
1998	3	5	3/5/1998	1.29E+02
1998	3	6	3/6/1998	1.17E+02
1998	3	7	3/7/1998	1.16E+02
1998	3	8	3/8/1998	1.24E+02
1998	3	9	3/9/1998	2.25E+02
1998	3	10	3/10/1998	2.27E+02
1998	3	11	3/11/1998	1.59E+02
1998	3	12	3/12/1998	1.39E+02
1998	3	13	3/13/1998	1.21E+02
1998	3	14	3/14/1998	1.01E+02
1998	3	15	3/15/1998	8.39E+01
1998	3	16	3/16/1998	7.16E+01
1998	3	17	3/17/1998	7.09E+01
1998	3	18	3/18/1998	6.85E+01
1998	3	19	3/19/1998	2.20E+02
1998	3	20	3/20/1998	9.10E+01
1998	3	21	3/21/1998	7.27E+01
1998	3	22	3/22/1998	6.29E+01
1998	3	23	3/23/1998	5.15E+01
1998	3	24	3/24/1998	5.00E+01
1998	3	25	3/25/1998	4.54E+01
1998	3	26	3/26/1998	3.48E+01
1998	3	27	3/27/1998	2.97E+01
1998	3	28	3/28/1998	2.57E+01
1998	3	29	3/29/1998	2.24E+01
1998	3	30	3/30/1998	1.96E+01
1998	3	31	3/31/1998	1.74E+01
1998	4	1	4/1/1998	1.58E+01
1998	4	2	4/2/1998	1.39E+01
1998	4	3	4/3/1998	1.29E+01
1998	4	4	4/4/1998	1.25E+01
1998	4	5	4/5/1998	9.61E+00
1998	4	6	4/6/1998	7.45E+00
1998	4	7	4/7/1998	5.99E+00
1998	4	8	4/8/1998	9.82E+00
1998	4	9	4/9/1998	2.69E+01
1998	4	10	4/10/1998	2.88E+01
1998	4	11	4/11/1998	2.61E+01
1998	4	12	4/12/1998	2.15E+01
1998	4	13	4/13/1998	1.86E+01
1998	4	14	4/14/1998	1.93E+01
1998	4	15	4/15/1998	2.08E+01
1998	4	16	4/16/1998	1.63E+01
1998	4	17	4/17/1998	1.38E+01
1998	4	18	4/18/1998	1.23E+01
1998	4	19	4/19/1998	1.07E+01
1998	4	20	4/20/1998	9.25E+00
1998	4	21	4/21/1998	7.45E+00
1998	4	22	4/22/1998	7.55E+00
1998	4	23	4/23/1998	8.93E+00
1998	4	24	4/24/1998	8.03E+00

1998	4	25	4/25/1998	6.55E+00
1998	4	26	4/26/1998	5.52E+00
1998	4	27	4/27/1998	4.82E+00
1998	4	28	4/28/1998	4.25E+00
1998	4	29	4/29/1998	4.26E+00
1998	4	30	4/30/1998	4.89E+00
1998	5	1	5/1/1998	1.71E+01
1998	5	2	5/2/1998	1.71E+01
1998	5	3	5/3/1998	1.45E+01
1998	5	4	5/4/1998	1.63E+01
1998	5	5	5/5/1998	1.47E+01
1998	5	6	5/6/1998	1.26E+01
1998	5	7	5/7/1998	1.14E+01
1998	5	8	5/8/1998	1.03E+01
1998	5	9	5/9/1998	8.76E+00
1998	5	10	5/10/1998	7.55E+00
1998	5	11	5/11/1998	6.66E+00
1998	5	12	5/12/1998	5.78E+00
1998	5	13	5/13/1998	5.02E+00
1998	5	14	5/14/1998	4.33E+00
1998	5	15	5/15/1998	3.64E+00
1998	5	16	5/16/1998	3.02E+00
1998	5	17	5/17/1998	2.56E+00
1998	5	18	5/18/1998	2.14E+00
1998	5	19	5/19/1998	1.61E+00
1998	5	20	5/20/1998	1.13E+00
1998	5	21	5/21/1998	8.13E-01
1998	5	22	5/22/1998	6.47E-01
1998	5	23	5/23/1998	5.57E-01
1998	5	24	5/24/1998	5.02E-01
1998	5	25	5/25/1998	4.65E-01
1998	5	26	5/26/1998	4.38E-01
1998	5	27	5/27/1998	7.95E-01
1998	5	28	5/28/1998	1.40E+00
1998	5	29	5/29/1998	1.33E+00
1998	5	30	5/30/1998	1.05E+00
1998	5	31	5/31/1998	7.77E-01
1998	6	1	6/1/1998	5.96E-01
1998	6	2	6/2/1998	4.87E-01
1998	6	3	6/3/1998	4.21E-01
1998	6	4	6/4/1998	3.86E-01
1998	6	5	6/5/1998	3.76E-01
1998	6	6	6/6/1998	4.63E-01
1998	6	7	6/7/1998	5.20E-01
1998	6	8	6/8/1998	4.72E-01
1998	6	9	6/9/1998	4.32E-01
1998	6	10	6/10/1998	4.05E-01
1998	6	11	6/11/1998	4.66E-01
1998	6	12	6/12/1998	5.05E-01
1998	6	13	6/13/1998	4.55E-01
1998	6	14	6/14/1998	4.15E-01
1998	6	15	6/15/1998	3.89E-01
1998	6	16	6/16/1998	3.74E-01
1998	6	17	6/17/1998	3.60E-01
1998	6	18	6/18/1998	3.48E-01
1998	6	19	6/19/1998	1.13E+00
1998	6	20	6/20/1998	2.48E+00
1998	6	21	6/21/1998	2.04E+00

1998	6	22	6/22/1998	1.46E+00
1998	6	23	6/23/1998	1.05E+00
1998	6	24	6/24/1998	7.57E-01
1998	6	25	6/25/1998	5.63E-01
1998	6	26	6/26/1998	4.54E-01
1998	6	27	6/27/1998	3.95E-01
1998	6	28	6/28/1998	3.64E-01
1998	6	29	6/29/1998	3.48E-01
1998	6	30	6/30/1998	3.39E-01
1998	7	1	7/1/1998	3.49E-01
1998	7	2	7/2/1998	6.32E-01
1998	7	3	7/3/1998	9.96E-01
1998	7	4	7/4/1998	1.47E+00
1998	7	5	7/5/1998	2.00E+00
1998	7	6	7/6/1998	2.83E+00
1998	7	7	7/7/1998	3.39E+00
1998	7	8	7/8/1998	2.40E+00
1998	7	9	7/9/1998	1.87E+00
1998	7	10	7/10/1998	1.58E+00
1998	7	11	7/11/1998	1.15E+00
1998	7	12	7/12/1998	4.54E+00
1998	7	13	7/13/1998	9.25E+00
1998	7	14	7/14/1998	1.71E+01
1998	7	15	7/15/1998	2.87E+01
1998	7	16	7/16/1998	1.53E+01
1998	7	17	7/17/1998	9.26E+00
1998	7	18	7/18/1998	1.73E+01
1998	7	19	7/19/1998	4.29E+01
1998	7	20	7/20/1998	1.76E+01
1998	7	21	7/21/1998	1.11E+01
1998	7	22	7/22/1998	9.87E+00
1998	7	23	7/23/1998	1.13E+01
1998	7	24	7/24/1998	1.14E+01
1998	7	25	7/25/1998	9.24E+00
1998	7	26	7/26/1998	1.11E+01
1998	7	27	7/27/1998	1.38E+01
1998	7	28	7/28/1998	1.22E+01
1998	7	29	7/29/1998	1.23E+01
1998	7	30	7/30/1998	9.80E+00
1998	7	31	7/31/1998	8.61E+00
1998	8	1	8/1/1998	8.61E+00
1998	8	2	8/2/1998	7.41E+00
1998	8	3	8/3/1998	6.04E+00
1998	8	4	8/4/1998	5.34E+00
1998	8	5	8/5/1998	4.84E+00
1998	8	6	8/6/1998	4.25E+00
1998	8	7	8/7/1998	8.39E+00
1998	8	8	8/8/1998	8.34E+00
1998	8	9	8/9/1998	8.65E+00
1998	8	10	8/10/1998	2.24E+01
1998	8	11	8/11/1998	2.65E+01
1998	8	12	8/12/1998	1.56E+01
1998	8	13	8/13/1998	1.36E+01
1998	8	14	8/14/1998	1.23E+01
1998	8	15	8/15/1998	1.15E+01
1998	8	16	8/16/1998	1.04E+01
1998	8	17	8/17/1998	9.65E+00
1998	8	18	8/18/1998	9.83E+00

1998	8	19	8/19/1998	9.58E+00
1998	8	20	8/20/1998	7.91E+00
1998	8	21	8/21/1998	9.30E+00
1998	8	22	8/22/1998	1.04E+01
1998	8	23	8/23/1998	8.03E+00
1998	8	24	8/24/1998	6.30E+00
1998	8	25	8/25/1998	5.47E+00
1998	8	26	8/26/1998	4.92E+00
1998	8	27	8/27/1998	4.43E+00
1998	8	28	8/28/1998	3.94E+00
1998	8	29	8/29/1998	3.48E+00
1998	8	30	8/30/1998	3.03E+00
1998	8	31	8/31/1998	2.64E+00
1998	9	1	9/1/1998	2.35E+00
1998	9	2	9/2/1998	2.14E+00
1998	9	3	9/3/1998	3.63E+00
1998	9	4	9/4/1998	4.33E+00
1998	9	5	9/5/1998	3.55E+00
1998	9	6	9/6/1998	2.70E+00
1998	9	7	9/7/1998	2.27E+00
1998	9	8	9/8/1998	2.02E+00
1998	9	9	9/9/1998	1.69E+00
1998	9	10	9/10/1998	1.42E+00
1998	9	11	9/11/1998	1.23E+00
1998	9	12	9/12/1998	1.10E+00
1998	9	13	9/13/1998	9.79E-01
1998	9	14	9/14/1998	8.80E-01
1998	9	15	9/15/1998	7.96E-01
1998	9	16	9/16/1998	7.25E-01
1998	9	17	9/17/1998	7.21E-01
1998	9	18	9/18/1998	3.03E+00
1998	9	19	9/19/1998	1.54E+01
1998	9	20	9/20/1998	2.35E+01
1998	9	21	9/21/1998	1.43E+01
1998	9	22	9/22/1998	1.15E+01
1998	9	23	9/23/1998	9.49E+00
1998	9	24	9/24/1998	8.09E+00
1998	9	25	9/25/1998	6.98E+00
1998	9	26	9/26/1998	6.23E+00
1998	9	27	9/27/1998	5.72E+00
1998	9	28	9/28/1998	5.42E+00
1998	9	29	9/29/1998	5.29E+00
1998	9	30	9/30/1998	3.67E+01
1998	10	1	10/1/1998	4.63E+01
1998	10	2	10/2/1998	3.15E+01
1998	10	3	10/3/1998	1.02E+02
1998	10	4	10/4/1998	1.29E+02
1998	10	5	10/5/1998	5.31E+01
1998	10	6	10/6/1998	4.88E+01
1998	10	7	10/7/1998	4.79E+01
1998	10	8	10/8/1998	4.28E+01
1998	10	9	10/9/1998	3.97E+01
1998	10	10	10/10/1998	3.42E+01
1998	10	11	10/11/1998	3.11E+01
1998	10	12	10/12/1998	2.83E+01
1998	10	13	10/13/1998	2.60E+01
1998	10	14	10/14/1998	2.38E+01
1998	10	15	10/15/1998	2.15E+01

1998	10	16	10/16/1998	1.95E+01
1998	10	17	10/17/1998	1.79E+01
1998	10	18	10/18/1998	1.64E+01
1998	10	19	10/19/1998	1.50E+01
1998	10	20	10/20/1998	1.38E+01
1998	10	21	10/21/1998	1.29E+01
1998	10	22	10/22/1998	1.20E+01
1998	10	23	10/23/1998	1.09E+01
1998	10	24	10/24/1998	1.00E+01
1998	10	25	10/25/1998	9.21E+00
1998	10	26	10/26/1998	8.40E+00
1998	10	27	10/27/1998	7.68E+00
1998	10	28	10/28/1998	7.05E+00
1998	10	29	10/29/1998	6.47E+00
1998	10	30	10/30/1998	5.94E+00
1998	10	31	10/31/1998	5.53E+00
1998	11	1	11/1/1998	5.21E+00
1998	11	2	11/2/1998	4.93E+00
1998	11	3	11/3/1998	4.65E+00
1998	11	4	11/4/1998	4.43E+00
1998	11	5	11/5/1998	4.18E+00
1998	11	6	11/6/1998	3.90E+00
1998	11	7	11/7/1998	3.62E+00
1998	11	8	11/8/1998	3.38E+00
1998	11	9	11/9/1998	3.18E+00
1998	11	10	11/10/1998	3.00E+00
1998	11	11	11/11/1998	2.83E+00
1998	11	12	11/12/1998	2.69E+00
1998	11	13	11/13/1998	2.54E+00
1998	11	14	11/14/1998	2.41E+00
1998	11	15	11/15/1998	2.30E+00
1998	11	16	11/16/1998	2.23E+00
1998	11	17	11/17/1998	2.16E+00
1998	11	18	11/18/1998	2.01E+00
1998	11	19	11/19/1998	1.87E+00
1998	11	20	11/20/1998	1.77E+00
1998	11	21	11/21/1998	1.67E+00
1998	11	22	11/22/1998	1.60E+00
1998	11	23	11/23/1998	1.55E+00
1998	11	24	11/24/1998	2.17E+00
1998	11	25	11/25/1998	2.13E+00
1998	11	26	11/26/1998	1.96E+00
1998	11	27	11/27/1998	1.75E+00
1998	11	28	11/28/1998	1.57E+00
1998	11	29	11/29/1998	1.43E+00
1998	11	30	11/30/1998	1.32E+00
1998	12	1	12/1/1998	1.21E+00
1998	12	2	12/2/1998	1.11E+00
1998	12	3	12/3/1998	1.02E+00
1998	12	4	12/4/1998	9.34E-01
1998	12	5	12/5/1998	8.60E-01
1998	12	6	12/6/1998	8.01E-01
1998	12	7	12/7/1998	7.53E-01
1998	12	8	12/8/1998	7.10E-01
1998	12	9	12/9/1998	6.66E-01
1998	12	10	12/10/1998	6.21E-01
1998	12	11	12/11/1998	5.83E-01
1998	12	12	12/12/1998	6.47E-01

1998	12	13	12/13/1998	8.88E-01
1998	12	14	12/14/1998	9.26E-01
1998	12	15	12/15/1998	1.26E+00
1998	12	16	12/16/1998	1.67E+00
1998	12	17	12/17/1998	1.64E+00
1998	12	18	12/18/1998	1.49E+00
1998	12	19	12/19/1998	1.36E+00
1998	12	20	12/20/1998	1.27E+00
1998	12	21	12/21/1998	1.20E+00
1998	12	22	12/22/1998	1.13E+00
1998	12	23	12/23/1998	1.08E+00
1998	12	24	12/24/1998	1.06E+00
1998	12	25	12/25/1998	1.19E+00
1998	12	26	12/26/1998	3.43E+00
1998	12	27	12/27/1998	4.42E+00
1998	12	28	12/28/1998	4.71E+00
1998	12	29	12/29/1998	5.05E+00
1998	12	30	12/30/1998	5.91E+00
1998	12	31	12/31/1998	5.60E+00
1999	1	1	1/1/1999	5.27E+00
1999	1	2	1/2/1999	5.08E+00
1999	1	3	1/3/1999	6.12E+00
1999	1	4	1/4/1999	5.59E+00
1999	1	5	1/5/1999	5.13E+00
1999	1	6	1/6/1999	4.78E+00
1999	1	7	1/7/1999	4.52E+00
1999	1	8	1/8/1999	4.30E+00
1999	1	9	1/9/1999	5.12E+00
1999	1	10	1/10/1999	7.57E+00
1999	1	11	1/11/1999	7.14E+00
1999	1	12	1/12/1999	6.09E+00
1999	1	13	1/13/1999	5.57E+00
1999	1	14	1/14/1999	5.31E+00
1999	1	15	1/15/1999	5.10E+00
1999	1	16	1/16/1999	4.82E+00
1999	1	17	1/17/1999	4.61E+00
1999	1	18	1/18/1999	4.53E+00
1999	1	19	1/19/1999	4.35E+00
1999	1	20	1/20/1999	4.08E+00
1999	1	21	1/21/1999	3.82E+00
1999	1	22	1/22/1999	3.60E+00
1999	1	23	1/23/1999	7.16E+00
1999	1	24	1/24/1999	7.38E+01
1999	1	25	1/25/1999	4.73E+01
1999	1	26	1/26/1999	3.36E+01
1999	1	27	1/27/1999	3.08E+01
1999	1	28	1/28/1999	2.87E+01
1999	1	29	1/29/1999	2.59E+01
1999	1	30	1/30/1999	2.61E+01
1999	1	31	1/31/1999	3.15E+01
1999	2	1	2/1/1999	7.83E+02
1999	2	2	2/2/1999	4.15E+02
1999	2	3	2/3/1999	1.47E+02
1999	2	4	2/4/1999	1.32E+02
1999	2	5	2/5/1999	1.22E+02
1999	2	6	2/6/1999	1.13E+02
1999	2	7	2/7/1999	1.02E+02
1999	2	8	2/8/1999	9.06E+01

1999	2	9	2/9/1999	8.49E+01
1999	2	10	2/10/1999	8.14E+01
1999	2	11	2/11/1999	7.13E+01
1999	2	12	2/12/1999	6.44E+01
1999	2	13	2/13/1999	5.90E+01
1999	2	14	2/14/1999	5.14E+01
1999	2	15	2/15/1999	4.58E+01
1999	2	16	2/16/1999	4.00E+01
1999	2	17	2/17/1999	3.58E+01
1999	2	18	2/18/1999	3.28E+01
1999	2	19	2/19/1999	2.99E+01
1999	2	20	2/20/1999	2.75E+01
1999	2	21	2/21/1999	2.56E+01
1999	2	22	2/22/1999	2.40E+01
1999	2	23	2/23/1999	2.22E+01
1999	2	24	2/24/1999	2.17E+01
1999	2	25	2/25/1999	1.88E+01
1999	2	26	2/26/1999	1.63E+01
1999	2	27	2/27/1999	1.50E+01
1999	2	28	2/28/1999	1.67E+01
1999	3	1	3/1/1999	1.72E+01
1999	3	2	3/2/1999	1.56E+01
1999	3	3	3/3/1999	1.44E+01
1999	3	4	3/4/1999	1.35E+01
1999	3	5	3/5/1999	1.22E+01
1999	3	6	3/6/1999	1.11E+01
1999	3	7	3/7/1999	9.98E+00
1999	3	8	3/8/1999	9.08E+00
1999	3	9	3/9/1999	9.09E+00
1999	3	10	3/10/1999	8.84E+00
1999	3	11	3/11/1999	7.64E+00
1999	3	12	3/12/1999	6.76E+00
1999	3	13	3/13/1999	6.19E+00
1999	3	14	3/14/1999	9.29E+00
1999	3	15	3/15/1999	1.20E+01
1999	3	16	3/16/1999	1.09E+01
1999	3	17	3/17/1999	9.38E+00
1999	3	18	3/18/1999	8.26E+00
1999	3	19	3/19/1999	7.35E+00
1999	3	20	3/20/1999	6.64E+00
1999	3	21	3/21/1999	6.31E+00
1999	3	22	3/22/1999	5.84E+00
1999	3	23	3/23/1999	5.29E+00
1999	3	24	3/24/1999	4.76E+00
1999	3	25	3/25/1999	4.37E+00
1999	3	26	3/26/1999	4.69E+00
1999	3	27	3/27/1999	4.53E+00
1999	3	28	3/28/1999	4.12E+00
1999	3	29	3/29/1999	3.67E+00
1999	3	30	3/30/1999	3.24E+00
1999	3	31	3/31/1999	2.87E+00
1999	4	1	4/1/1999	4.63E+00
1999	4	2	4/2/1999	6.99E+00
1999	4	3	4/3/1999	5.50E+00
1999	4	4	4/4/1999	4.54E+00
1999	4	5	4/5/1999	3.76E+00
1999	4	6	4/6/1999	3.22E+00
1999	4	7	4/7/1999	3.07E+00

1999	4	8	4/8/1999	3.58E+00
1999	4	9	4/9/1999	3.38E+00
1999	4	10	4/10/1999	3.03E+00
1999	4	11	4/11/1999	2.59E+00
1999	4	12	4/12/1999	2.16E+00
1999	4	13	4/13/1999	1.78E+00
1999	4	14	4/14/1999	1.44E+00
1999	4	15	4/15/1999	1.17E+00
1999	4	16	4/16/1999	9.37E-01
1999	4	17	4/17/1999	1.08E+00
1999	4	18	4/18/1999	1.32E+00
1999	4	19	4/19/1999	1.09E+00
1999	4	20	4/20/1999	8.15E-01
1999	4	21	4/21/1999	6.25E-01
1999	4	22	4/22/1999	5.05E-01
1999	4	23	4/23/1999	4.34E-01
1999	4	24	4/24/1999	3.99E-01
1999	4	25	4/25/1999	7.28E+00
1999	4	26	4/26/1999	1.77E+01
1999	4	27	4/27/1999	1.14E+01
1999	4	28	4/28/1999	1.05E+01
1999	4	29	4/29/1999	1.43E+01
1999	4	30	4/30/1999	1.68E+01
1999	5	1	5/1/1999	1.77E+01
1999	5	2	5/2/1999	1.38E+01
1999	5	3	5/3/1999	1.04E+01
1999	5	4	5/4/1999	8.57E+00
1999	5	5	5/5/1999	8.49E+00
1999	5	6	5/6/1999	1.38E+01
1999	5	7	5/7/1999	2.27E+01
1999	5	8	5/8/1999	2.07E+01
1999	5	9	5/9/1999	1.66E+01
1999	5	10	5/10/1999	1.43E+01
1999	5	11	5/11/1999	1.26E+01
1999	5	12	5/12/1999	1.14E+01
1999	5	13	5/13/1999	1.05E+01
1999	5	14	5/14/1999	1.25E+01
1999	5	15	5/15/1999	1.43E+01
1999	5	16	5/16/1999	1.22E+01
1999	5	17	5/17/1999	1.00E+01
1999	5	18	5/18/1999	8.52E+00
1999	5	19	5/19/1999	9.54E+00
1999	5	20	5/20/1999	1.07E+01
1999	5	21	5/21/1999	8.50E+00
1999	5	22	5/22/1999	7.00E+00
1999	5	23	5/23/1999	6.04E+00
1999	5	24	5/24/1999	5.49E+00
1999	5	25	5/25/1999	5.00E+00
1999	5	26	5/26/1999	4.39E+00
1999	5	27	5/27/1999	3.82E+00
1999	5	28	5/28/1999	3.26E+00
1999	5	29	5/29/1999	2.75E+00
1999	5	30	5/30/1999	2.30E+00
1999	5	31	5/31/1999	1.91E+00
1999	6	1	6/1/1999	1.56E+00
1999	6	2	6/2/1999	1.26E+00
1999	6	3	6/3/1999	1.24E+00
1999	6	4	6/4/1999	1.23E+00

1999	6	5	6/5/1999	9.37E-01
1999	6	6	6/6/1999	7.19E-01
1999	6	7	6/7/1999	5.78E-01
1999	6	8	6/8/1999	4.77E-01
1999	6	9	6/9/1999	4.16E-01
1999	6	10	6/10/1999	1.39E+03
1999	6	11	6/11/1999	4.45E+03
1999	6	12	6/12/1999	2.31E+02
1999	6	13	6/13/1999	1.34E+02
1999	6	14	6/14/1999	1.22E+02
1999	6	15	6/15/1999	1.09E+02
1999	6	16	6/16/1999	9.61E+01
1999	6	17	6/17/1999	9.18E+01
1999	6	18	6/18/1999	8.18E+01
1999	6	19	6/19/1999	6.94E+01
1999	6	20	6/20/1999	6.79E+01
1999	6	21	6/21/1999	6.19E+01
1999	6	22	6/22/1999	4.93E+01
1999	6	23	6/23/1999	4.20E+01
1999	6	24	6/24/1999	3.86E+01
1999	6	25	6/25/1999	4.26E+01
1999	6	26	6/26/1999	9.03E+01
1999	6	27	6/27/1999	9.06E+01
1999	6	28	6/28/1999	8.13E+01
1999	6	29	6/29/1999	1.08E+02
1999	6	30	6/30/1999	2.12E+02
1999	7	1	7/1/1999	1.87E+02
1999	7	2	7/2/1999	1.58E+02
1999	7	3	7/3/1999	1.43E+02
1999	7	4	7/4/1999	1.32E+02
1999	7	5	7/5/1999	1.13E+02
1999	7	6	7/6/1999	1.04E+02
1999	7	7	7/7/1999	9.24E+01
1999	7	8	7/8/1999	7.55E+01
1999	7	9	7/9/1999	6.55E+01
1999	7	10	7/10/1999	6.17E+01
1999	7	11	7/11/1999	6.70E+01
1999	7	12	7/12/1999	6.63E+01
1999	7	13	7/13/1999	1.24E+02
1999	7	14	7/14/1999	1.19E+02
1999	7	15	7/15/1999	1.11E+02
1999	7	16	7/16/1999	3.43E+02
1999	7	17	7/17/1999	4.58E+02
1999	7	18	7/18/1999	3.55E+02
1999	7	19	7/19/1999	2.69E+02
1999	7	20	7/20/1999	2.36E+02
1999	7	21	7/21/1999	2.04E+02
1999	7	22	7/22/1999	1.75E+02
1999	7	23	7/23/1999	1.44E+02
1999	7	24	7/24/1999	1.21E+02
1999	7	25	7/25/1999	1.11E+02
1999	7	26	7/26/1999	1.08E+02
1999	7	27	7/27/1999	9.27E+01
1999	7	28	7/28/1999	8.02E+01
1999	7	29	7/29/1999	6.89E+01
1999	7	30	7/30/1999	5.83E+01
1999	7	31	7/31/1999	4.94E+01
1999	8	1	8/1/1999	4.21E+01

1999	8	2	8/2/1999	3.73E+01
1999	8	3	8/3/1999	3.29E+01
1999	8	4	8/4/1999	2.78E+01
1999	8	5	8/5/1999	2.36E+01
1999	8	6	8/6/1999	1.98E+01
1999	8	7	8/7/1999	1.67E+01
1999	8	8	8/8/1999	1.82E+01
1999	8	9	8/9/1999	2.41E+01
1999	8	10	8/10/1999	1.58E+01
1999	8	11	8/11/1999	1.19E+01
1999	8	12	8/12/1999	9.62E+00
1999	8	13	8/13/1999	7.95E+00
1999	8	14	8/14/1999	6.77E+00
1999	8	15	8/15/1999	5.80E+00
1999	8	16	8/16/1999	5.00E+00
1999	8	17	8/17/1999	4.24E+00
1999	8	18	8/18/1999	3.43E+00
1999	8	19	8/19/1999	2.68E+00
1999	8	20	8/20/1999	2.08E+00
1999	8	21	8/21/1999	1.58E+00
1999	8	22	8/22/1999	1.41E+00
1999	8	23	8/23/1999	1.56E+00
1999	8	24	8/24/1999	1.31E+00
1999	8	25	8/25/1999	2.00E+00
1999	8	26	8/26/1999	1.70E+00
1999	8	27	8/27/1999	1.48E+00
1999	8	28	8/28/1999	1.30E+00
1999	8	29	8/29/1999	9.68E-01
1999	8	30	8/30/1999	7.49E-01
1999	8	31	8/31/1999	6.05E-01
1999	9	1	9/1/1999	5.20E-01
1999	9	2	9/2/1999	4.68E-01
1999	9	3	9/3/1999	4.37E-01
1999	9	4	9/4/1999	4.18E-01
1999	9	5	9/5/1999	4.08E-01
1999	9	6	9/6/1999	4.02E-01
1999	9	7	9/7/1999	3.97E-01
1999	9	8	9/8/1999	3.97E-01
1999	9	9	9/9/1999	6.23E-01
1999	9	10	9/10/1999	1.37E+00
1999	9	11	9/11/1999	1.25E+00
1999	9	12	9/12/1999	9.58E-01
1999	9	13	9/13/1999	7.12E-01
1999	9	14	9/14/1999	6.14E-01
1999	9	15	9/15/1999	2.07E+00
1999	9	16	9/16/1999	7.25E+00
1999	9	17	9/17/1999	9.32E+00
1999	9	18	9/18/1999	7.40E+00
1999	9	19	9/19/1999	1.03E+01
1999	9	20	9/20/1999	1.39E+01
1999	9	21	9/21/1999	3.55E+01
1999	9	22	9/22/1999	2.12E+01
1999	9	23	9/23/1999	1.54E+01
1999	9	24	9/24/1999	1.33E+01
1999	9	25	9/25/1999	1.21E+01
1999	9	26	9/26/1999	1.43E+01
1999	9	27	9/27/1999	5.36E+01
1999	9	28	9/28/1999	5.18E+01

1999	9	29	9/29/1999	4.90E+01
1999	9	30	9/30/1999	6.76E+01
1999	10	1	10/1/1999	5.71E+01
1999	10	2	10/2/1999	5.17E+01
1999	10	3	10/3/1999	4.72E+01
1999	10	4	10/4/1999	5.31E+01
1999	10	5	10/5/1999	5.93E+01
1999	10	6	10/6/1999	4.80E+01
1999	10	7	10/7/1999	3.96E+01
1999	10	8	10/8/1999	3.52E+01
1999	10	9	10/9/1999	3.30E+01
1999	10	10	10/10/1999	3.14E+01
1999	10	11	10/11/1999	2.90E+01
1999	10	12	10/12/1999	3.00E+01
1999	10	13	10/13/1999	3.02E+01
1999	10	14	10/14/1999	2.43E+01
1999	10	15	10/15/1999	2.37E+01
1999	10	16	10/16/1999	3.07E+01
1999	10	17	10/17/1999	9.34E+01
1999	10	18	10/18/1999	8.72E+01
1999	10	19	10/19/1999	7.85E+01
1999	10	20	10/20/1999	8.24E+01
1999	10	21	10/21/1999	8.05E+01
1999	10	22	10/22/1999	7.18E+01
1999	10	23	10/23/1999	6.44E+01
1999	10	24	10/24/1999	5.94E+01
1999	10	25	10/25/1999	5.48E+01
1999	10	26	10/26/1999	4.92E+01
1999	10	27	10/27/1999	4.41E+01
1999	10	28	10/28/1999	3.96E+01
1999	10	29	10/29/1999	3.57E+01
1999	10	30	10/30/1999	3.40E+01
1999	10	31	10/31/1999	3.21E+01
1999	11	1	11/1/1999	2.95E+01
1999	11	2	11/2/1999	2.95E+01
1999	11	3	11/3/1999	2.56E+01
1999	11	4	11/4/1999	2.18E+01
1999	11	5	11/5/1999	1.97E+01
1999	11	6	11/6/1999	1.78E+01
1999	11	7	11/7/1999	1.60E+01
1999	11	8	11/8/1999	1.45E+01
1999	11	9	11/9/1999	1.35E+01
1999	11	10	11/10/1999	1.26E+01
1999	11	11	11/11/1999	1.14E+01
1999	11	12	11/12/1999	1.07E+01
1999	11	13	11/13/1999	1.01E+01
1999	11	14	11/14/1999	9.11E+00
1999	11	15	11/15/1999	8.27E+00
1999	11	16	11/16/1999	7.62E+00
1999	11	17	11/17/1999	7.04E+00
1999	11	18	11/18/1999	6.49E+00
1999	11	19	11/19/1999	6.04E+00
1999	11	20	11/20/1999	5.64E+00
1999	11	21	11/21/1999	5.34E+00
1999	11	22	11/22/1999	5.14E+00
1999	11	23	11/23/1999	5.03E+00
1999	11	24	11/24/1999	5.29E+00
1999	11	25	11/25/1999	8.26E+00

1999	11	26	11/26/1999	8.61E+00
1999	11	27	11/27/1999	7.85E+00
1999	11	28	11/28/1999	7.15E+00
1999	11	29	11/29/1999	6.59E+00
1999	11	30	11/30/1999	6.12E+00
1999	12	1	12/1/1999	5.77E+00
1999	12	2	12/2/1999	5.50E+00
1999	12	3	12/3/1999	5.23E+00
1999	12	4	12/4/1999	4.95E+00
1999	12	5	12/5/1999	4.68E+00
1999	12	6	12/6/1999	5.74E+00
1999	12	7	12/7/1999	7.10E+00
1999	12	8	12/8/1999	6.49E+00
1999	12	9	12/9/1999	5.89E+00
1999	12	10	12/10/1999	5.55E+00
1999	12	11	12/11/1999	5.27E+00
1999	12	12	12/12/1999	5.02E+00
1999	12	13	12/13/1999	4.84E+00
1999	12	14	12/14/1999	8.49E+00
1999	12	15	12/15/1999	8.54E+00
1999	12	16	12/16/1999	8.04E+00
1999	12	17	12/17/1999	7.74E+00
1999	12	18	12/18/1999	7.79E+00
1999	12	19	12/19/1999	8.62E+00
1999	12	20	12/20/1999	7.69E+00
1999	12	21	12/21/1999	6.97E+00
1999	12	22	12/22/1999	7.10E+00
1999	12	23	12/23/1999	6.95E+00
1999	12	24	12/24/1999	6.16E+00
1999	12	25	12/25/1999	5.66E+00
1999	12	26	12/26/1999	5.42E+00
1999	12	27	12/27/1999	5.21E+00
1999	12	28	12/28/1999	4.99E+00
1999	12	29	12/29/1999	4.79E+00
1999	12	30	12/30/1999	4.60E+00
1999	12	31	12/31/1999	4.43E+00
2000	1	1	1/1/2000	4.25E+00
2000	1	2	1/2/2000	4.00E+00
2000	1	3	1/3/2000	3.73E+00
2000	1	4	1/4/2000	3.54E+00
2000	1	5	1/5/2000	3.63E+00
2000	1	6	1/6/2000	3.45E+00
2000	1	7	1/7/2000	3.32E+00
2000	1	8	1/8/2000	3.18E+00
2000	1	9	1/9/2000	3.01E+00
2000	1	10	1/10/2000	3.73E+00
2000	1	11	1/11/2000	4.64E+00
2000	1	12	1/12/2000	4.47E+00
2000	1	13	1/13/2000	4.07E+00
2000	1	14	1/14/2000	3.69E+00
2000	1	15	1/15/2000	3.37E+00
2000	1	16	1/16/2000	3.12E+00
2000	1	17	1/17/2000	2.91E+00
2000	1	18	1/18/2000	2.75E+00
2000	1	19	1/19/2000	2.67E+00
2000	1	20	1/20/2000	2.53E+00
2000	1	21	1/21/2000	2.35E+00
2000	1	22	1/22/2000	2.17E+00

2000	1	23	1/23/2000	2.79E+00
2000	1	24	1/24/2000	1.41E+01
2000	1	25	1/25/2000	2.02E+01
2000	1	26	1/26/2000	1.66E+01
2000	1	27	1/27/2000	1.46E+01
2000	1	28	1/28/2000	1.47E+01
2000	1	29	1/29/2000	1.90E+01
2000	1	30	1/30/2000	2.29E+01
2000	1	31	1/31/2000	2.63E+01
2000	2	1	2/1/2000	2.25E+01
2000	2	2	2/2/2000	1.97E+01
2000	2	3	2/3/2000	1.80E+01
2000	2	4	2/4/2000	1.66E+01
2000	2	5	2/5/2000	1.53E+01
2000	2	6	2/6/2000	1.42E+01
2000	2	7	2/7/2000	1.31E+01
2000	2	8	2/8/2000	1.23E+01
2000	2	9	2/9/2000	1.15E+01
2000	2	10	2/10/2000	1.05E+01
2000	2	11	2/11/2000	9.77E+00
2000	2	12	2/12/2000	9.24E+00
2000	2	13	2/13/2000	8.62E+00
2000	2	14	2/14/2000	1.50E+01
2000	2	15	2/15/2000	2.02E+01
2000	2	16	2/16/2000	1.62E+01
2000	2	17	2/17/2000	1.42E+01
2000	2	18	2/18/2000	1.30E+01
2000	2	19	2/19/2000	1.21E+01
2000	2	20	2/20/2000	1.13E+01
2000	2	21	2/21/2000	1.04E+01
2000	2	22	2/22/2000	9.48E+00
2000	2	23	2/23/2000	8.67E+00
2000	2	24	2/24/2000	7.91E+00
2000	2	25	2/25/2000	7.11E+00
2000	2	26	2/26/2000	6.43E+00
2000	2	27	2/27/2000	7.78E+00
2000	2	28	2/28/2000	1.27E+01
2000	2	29	2/29/2000	1.14E+01
2000	3	1	3/1/2000	9.69E+00
2000	3	2	3/2/2000	8.59E+00
2000	3	3	3/3/2000	7.74E+00
2000	3	4	3/4/2000	7.01E+00
2000	3	5	3/5/2000	6.36E+00
2000	3	6	3/6/2000	5.81E+00
2000	3	7	3/7/2000	5.36E+00
2000	3	8	3/8/2000	4.94E+00
2000	3	9	3/9/2000	4.49E+00
2000	3	10	3/10/2000	4.04E+00
2000	3	11	3/11/2000	3.61E+00
2000	3	12	3/12/2000	3.68E+00
2000	3	13	3/13/2000	3.39E+00
2000	3	14	3/14/2000	3.04E+00
2000	3	15	3/15/2000	2.67E+00
2000	3	16	3/16/2000	2.85E+00
2000	3	17	3/17/2000	4.37E+00
2000	3	18	3/18/2000	4.31E+00
2000	3	19	3/19/2000	3.97E+00
2000	3	20	3/20/2000	1.01E+01

2000	3	21	3/21/2000	9.51E+00
2000	3	22	3/22/2000	7.64E+00
2000	3	23	3/23/2000	6.77E+00
2000	3	24	3/24/2000	6.19E+00
2000	3	25	3/25/2000	5.53E+00
2000	3	26	3/26/2000	8.79E+00
2000	3	27	3/27/2000	2.14E+01
2000	3	28	3/28/2000	1.86E+01
2000	3	29	3/29/2000	1.41E+01
2000	3	30	3/30/2000	6.28E+01
2000	3	31	3/31/2000	8.85E+01
2000	4	1	4/1/2000	5.37E+01
2000	4	2	4/2/2000	4.72E+01
2000	4	3	4/3/2000	4.20E+01
2000	4	4	4/4/2000	3.97E+01
2000	4	5	4/5/2000	3.66E+01
2000	4	6	4/6/2000	3.11E+01
2000	4	7	4/7/2000	2.73E+01
2000	4	8	4/8/2000	2.53E+01
2000	4	9	4/9/2000	2.48E+01
2000	4	10	4/10/2000	2.18E+01
2000	4	11	4/11/2000	1.93E+01
2000	4	12	4/12/2000	1.73E+01
2000	4	13	4/13/2000	1.86E+01
2000	4	14	4/14/2000	3.05E+01
2000	4	15	4/15/2000	4.13E+01
2000	4	16	4/16/2000	3.20E+01
2000	4	17	4/17/2000	2.65E+01
2000	4	18	4/18/2000	2.30E+01
2000	4	19	4/19/2000	2.04E+01
2000	4	20	4/20/2000	1.82E+01
2000	4	21	4/21/2000	1.63E+01
2000	4	22	4/22/2000	1.46E+01
2000	4	23	4/23/2000	1.30E+01
2000	4	24	4/24/2000	1.88E+01
2000	4	25	4/25/2000	2.75E+01
2000	4	26	4/26/2000	1.92E+01
2000	4	27	4/27/2000	1.58E+01
2000	4	28	4/28/2000	2.38E+01
2000	4	29	4/29/2000	2.47E+01
2000	4	30	4/30/2000	1.91E+01
2000	5	1	5/1/2000	1.63E+01
2000	5	2	5/2/2000	1.45E+01
2000	5	3	5/3/2000	1.29E+01
2000	5	4	5/4/2000	1.15E+01
2000	5	5	5/5/2000	1.01E+01
2000	5	6	5/6/2000	8.72E+00
2000	5	7	5/7/2000	7.54E+00
2000	5	8	5/8/2000	6.48E+00
2000	5	9	5/9/2000	5.66E+00
2000	5	10	5/10/2000	5.06E+00
2000	5	11	5/11/2000	4.51E+00
2000	5	12	5/12/2000	3.91E+00
2000	5	13	5/13/2000	3.30E+00
2000	5	14	5/14/2000	3.67E+00
2000	5	15	5/15/2000	8.25E+00
2000	5	16	5/16/2000	6.79E+00
2000	5	17	5/17/2000	4.95E+00

2000	5	18	5/18/2000	3.88E+00
2000	5	19	5/19/2000	3.06E+00
2000	5	20	5/20/2000	2.44E+00
2000	5	21	5/21/2000	1.97E+00
2000	5	22	5/22/2000	1.61E+00
2000	5	23	5/23/2000	1.30E+00
2000	5	24	5/24/2000	1.02E+00
2000	5	25	5/25/2000	7.90E-01
2000	5	26	5/26/2000	1.07E+00
2000	5	27	5/27/2000	2.05E+00
2000	5	28	5/28/2000	1.71E+00
2000	5	29	5/29/2000	1.20E+00
2000	5	30	5/30/2000	8.10E-01
2000	5	31	5/31/2000	6.02E-01
2000	6	1	6/1/2000	4.91E-01
2000	6	2	6/2/2000	4.28E-01
2000	6	3	6/3/2000	3.94E-01
2000	6	4	6/4/2000	6.25E-01
2000	6	5	6/5/2000	1.72E+00
2000	6	6	6/6/2000	1.80E+00
2000	6	7	6/7/2000	1.34E+00
2000	6	8	6/8/2000	9.10E-01
2000	6	9	6/9/2000	6.49E-01
2000	6	10	6/10/2000	5.04E-01
2000	6	11	6/11/2000	4.25E-01
2000	6	12	6/12/2000	3.85E-01
2000	6	13	6/13/2000	3.68E-01
2000	6	14	6/14/2000	3.61E-01
2000	6	15	6/15/2000	3.61E-01
2000	6	16	6/16/2000	3.60E-01
2000	6	17	6/17/2000	3.52E-01
2000	6	18	6/18/2000	1.37E+00
2000	6	19	6/19/2000	2.56E+00
2000	6	20	6/20/2000	3.65E+00
2000	6	21	6/21/2000	6.49E+00
2000	6	22	6/22/2000	4.47E+00
2000	6	23	6/23/2000	2.78E+00
2000	6	24	6/24/2000	1.64E+00
2000	6	25	6/25/2000	1.00E+00
2000	6	26	6/26/2000	6.99E-01
2000	6	27	6/27/2000	5.81E-01
2000	6	28	6/28/2000	7.49E-01
2000	6	29	6/29/2000	1.04E+00
2000	6	30	6/30/2000	8.47E-01
2000	7	1	7/1/2000	6.54E-01
2000	7	2	7/2/2000	5.14E-01
2000	7	3	7/3/2000	4.29E-01
2000	7	4	7/4/2000	3.82E-01
2000	7	5	7/5/2000	3.60E-01
2000	7	6	7/6/2000	3.54E-01
2000	7	7	7/7/2000	3.55E-01
2000	7	8	7/8/2000	3.57E-01
2000	7	9	7/9/2000	3.53E-01
2000	7	10	7/10/2000	3.46E-01
2000	7	11	7/11/2000	3.46E-01
2000	7	12	7/12/2000	6.73E-01
2000	7	13	7/13/2000	1.08E+00
2000	7	14	7/14/2000	5.06E+00

2000	7	15	7/15/2000	3.98E+00
2000	7	16	7/16/2000	2.41E+00
2000	7	17	7/17/2000	1.38E+00
2000	7	18	7/18/2000	8.23E-01
2000	7	19	7/19/2000	5.73E-01
2000	7	20	7/20/2000	4.50E-01
2000	7	21	7/21/2000	3.91E-01
2000	7	22	7/22/2000	3.67E-01
2000	7	23	7/23/2000	6.13E-01
2000	7	24	7/24/2000	8.63E-01
2000	7	25	7/25/2000	8.94E-01
2000	7	26	7/26/2000	7.63E-01
2000	7	27	7/27/2000	9.21E-01
2000	7	28	7/28/2000	1.73E+00
2000	7	29	7/29/2000	1.39E+00
2000	7	30	7/30/2000	9.71E-01
2000	7	31	7/31/2000	6.78E-01
2000	8	1	8/1/2000	5.21E-01
2000	8	2	8/2/2000	4.38E-01
2000	8	3	8/3/2000	3.98E-01
2000	8	4	8/4/2000	1.23E+01
2000	8	5	8/5/2000	3.09E+01
2000	8	6	8/6/2000	1.14E+01
2000	8	7	8/7/2000	5.29E+00
2000	8	8	8/8/2000	1.17E+01
2000	8	9	8/9/2000	1.87E+01
2000	8	10	8/10/2000	8.79E+00
2000	8	11	8/11/2000	2.00E+01
2000	8	12	8/12/2000	5.60E+01
2000	8	13	8/13/2000	1.98E+01
2000	8	14	8/14/2000	1.17E+01
2000	8	15	8/15/2000	9.28E+00
2000	8	16	8/16/2000	7.95E+00
2000	8	17	8/17/2000	6.81E+00
2000	8	18	8/18/2000	5.88E+00
2000	8	19	8/19/2000	5.62E+00
2000	8	20	8/20/2000	8.94E+00
2000	8	21	8/21/2000	6.51E+00
2000	8	22	8/22/2000	6.18E+00
2000	8	23	8/23/2000	7.77E+00
2000	8	24	8/24/2000	5.60E+00
2000	8	25	8/25/2000	7.00E+00
2000	8	26	8/26/2000	8.20E+00
2000	8	27	8/27/2000	5.64E+00
2000	8	28	8/28/2000	4.60E+00
2000	8	29	8/29/2000	4.40E+00
2000	8	30	8/30/2000	3.71E+00
2000	8	31	8/31/2000	3.15E+00
2000	9	1	9/1/2000	4.17E+00
2000	9	2	9/2/2000	8.17E+00
2000	9	3	9/3/2000	1.05E+01
2000	9	4	9/4/2000	1.39E+01
2000	9	5	9/5/2000	1.70E+01
2000	9	6	9/6/2000	4.01E+01
2000	9	7	9/7/2000	5.86E+01
2000	9	8	9/8/2000	6.93E+01
2000	9	9	9/9/2000	7.66E+01
2000	9	10	9/10/2000	5.68E+01

2000	9	11	9/11/2000	5.08E+01
2000	9	12	9/12/2000	5.24E+01
2000	9	13	9/13/2000	5.73E+01
2000	9	14	9/14/2000	4.78E+01
2000	9	15	9/15/2000	4.28E+01
2000	9	16	9/16/2000	3.95E+01
2000	9	17	9/17/2000	4.96E+01
2000	9	18	9/18/2000	6.76E+01
2000	9	19	9/19/2000	5.60E+01
2000	9	20	9/20/2000	5.22E+01
2000	9	21	9/21/2000	5.30E+01
2000	9	22	9/22/2000	5.63E+01
2000	9	23	9/23/2000	6.14E+01
2000	9	24	9/24/2000	5.06E+01
2000	9	25	9/25/2000	4.23E+01
2000	9	26	9/26/2000	4.16E+01
2000	9	27	9/27/2000	3.88E+01
2000	9	28	9/28/2000	3.52E+01
2000	9	29	9/29/2000	3.33E+01
2000	9	30	9/30/2000	4.72E+01
2000	10	1	10/1/2000	4.31E+01
2000	10	2	10/2/2000	3.42E+01
2000	10	3	10/3/2000	3.05E+01
2000	10	4	10/4/2000	3.26E+01
2000	10	5	10/5/2000	3.42E+01
2000	10	6	10/6/2000	3.16E+01
2000	10	7	10/7/2000	3.58E+01
2000	10	8	10/8/2000	3.50E+01
2000	10	9	10/9/2000	3.30E+01
2000	10	10	10/10/2000	2.80E+01
2000	10	11	10/11/2000	2.50E+01
2000	10	12	10/12/2000	2.22E+01
2000	10	13	10/13/2000	2.01E+01
2000	10	14	10/14/2000	1.83E+01
2000	10	15	10/15/2000	1.68E+01
2000	10	16	10/16/2000	1.54E+01
2000	10	17	10/17/2000	1.41E+01
2000	10	18	10/18/2000	1.29E+01
2000	10	19	10/19/2000	1.18E+01
2000	10	20	10/20/2000	1.10E+01
2000	10	21	10/21/2000	1.02E+01
2000	10	22	10/22/2000	9.19E+00
2000	10	23	10/23/2000	8.29E+00
2000	10	24	10/24/2000	7.52E+00
2000	10	25	10/25/2000	6.83E+00
2000	10	26	10/26/2000	6.21E+00
2000	10	27	10/27/2000	5.67E+00
2000	10	28	10/28/2000	5.26E+00
2000	10	29	10/29/2000	4.93E+00
2000	10	30	10/30/2000	4.59E+00
2000	10	31	10/31/2000	4.21E+00
2000	11	1	11/1/2000	3.83E+00
2000	11	2	11/2/2000	3.48E+00
2000	11	3	11/3/2000	3.16E+00
2000	11	4	11/4/2000	2.87E+00
2000	11	5	11/5/2000	2.62E+00
2000	11	6	11/6/2000	2.40E+00
2000	11	7	11/7/2000	2.18E+00

2000	11	8	11/8/2000	1.95E+00
2000	11	9	11/9/2000	1.73E+00
2000	11	10	11/10/2000	1.54E+00
2000	11	11	11/11/2000	1.35E+00
2000	11	12	11/12/2000	1.19E+00
2000	11	13	11/13/2000	1.05E+00
2000	11	14	11/14/2000	2.40E+00
2000	11	15	11/15/2000	3.15E+00
2000	11	16	11/16/2000	2.97E+00
2000	11	17	11/17/2000	2.87E+00
2000	11	18	11/18/2000	2.70E+00
2000	11	19	11/19/2000	2.84E+00
2000	11	20	11/20/2000	3.79E+00
2000	11	21	11/21/2000	3.77E+00
2000	11	22	11/22/2000	3.51E+00
2000	11	23	11/23/2000	3.25E+00
2000	11	24	11/24/2000	3.06E+00
2000	11	25	11/25/2000	1.05E+01
2000	11	26	11/26/2000	1.06E+01
2000	11	27	11/27/2000	8.68E+00
2000	11	28	11/28/2000	7.60E+00
2000	11	29	11/29/2000	7.13E+00
2000	11	30	11/30/2000	6.81E+00
2000	12	1	12/1/2000	6.34E+00
2000	12	2	12/2/2000	5.97E+00
2000	12	3	12/3/2000	6.04E+00
2000	12	4	12/4/2000	6.17E+00
2000	12	5	12/5/2000	5.67E+00
2000	12	6	12/6/2000	5.28E+00
2000	12	7	12/7/2000	4.96E+00
2000	12	8	12/8/2000	4.68E+00
2000	12	9	12/9/2000	4.60E+00
2000	12	10	12/10/2000	5.41E+00
2000	12	11	12/11/2000	5.42E+00
2000	12	12	12/12/2000	5.25E+00
2000	12	13	12/13/2000	4.97E+00
2000	12	14	12/14/2000	4.81E+00
2000	12	15	12/15/2000	5.09E+00
2000	12	16	12/16/2000	4.98E+00
2000	12	17	12/17/2000	7.11E+00
2000	12	18	12/18/2000	6.73E+00
2000	12	19	12/19/2000	6.71E+00
2000	12	20	12/20/2000	6.97E+00
2000	12	21	12/21/2000	6.12E+00
2000	12	22	12/22/2000	5.63E+00
2000	12	23	12/23/2000	5.38E+00
2000	12	24	12/24/2000	5.19E+00
2000	12	25	12/25/2000	5.01E+00
2000	12	26	12/26/2000	4.84E+00
2000	12	27	12/27/2000	4.69E+00
2000	12	28	12/28/2000	1.31E+01
2000	12	29	12/29/2000	3.33E+01
2000	12	30	12/30/2000	2.75E+01
2000	12	31	12/31/2000	2.43E+01
2001	1	1	1/1/2001	2.16E+01
2001	1	2	1/2/2001	1.86E+01
2001	1	3	1/3/2001	1.71E+01
2001	1	4	1/4/2001	1.59E+01

2001	1	5	1/5/2001	1.47E+01
2001	1	6	1/6/2001	1.35E+01
2001	1	7	1/7/2001	1.27E+01
2001	1	8	1/8/2001	1.28E+01
2001	1	9	1/9/2001	1.24E+01
2001	1	10	1/10/2001	1.14E+01
2001	1	11	1/11/2001	1.07E+01
2001	1	12	1/12/2001	1.13E+01
2001	1	13	1/13/2001	1.09E+01
2001	1	14	1/14/2001	9.71E+00
2001	1	15	1/15/2001	9.06E+00
2001	1	16	1/16/2001	8.46E+00
2001	1	17	1/17/2001	8.03E+00
2001	1	18	1/18/2001	7.64E+00
2001	1	19	1/19/2001	7.12E+00
2001	1	20	1/20/2001	7.57E+00
2001	1	21	1/21/2001	7.46E+00
2001	1	22	1/22/2001	6.98E+00
2001	1	23	1/23/2001	1.21E+01
2001	1	24	1/24/2001	1.36E+01
2001	1	25	1/25/2001	1.25E+01
2001	1	26	1/26/2001	1.15E+01
2001	1	27	1/27/2001	1.07E+01
2001	1	28	1/28/2001	1.00E+01
2001	1	29	1/29/2001	9.34E+00
2001	1	30	1/30/2001	9.42E+00
2001	1	31	1/31/2001	1.01E+01
2001	2	1	2/1/2001	2.08E+01
2001	2	2	2/2/2001	2.10E+01
2001	2	3	2/3/2001	1.96E+01
2001	2	4	2/4/2001	2.69E+01
2001	2	5	2/5/2001	3.14E+01
2001	2	6	2/6/2001	2.56E+01
2001	2	7	2/7/2001	2.28E+01
2001	2	8	2/8/2001	2.08E+01
2001	2	9	2/9/2001	1.91E+01
2001	2	10	2/10/2001	1.90E+01
2001	2	11	2/11/2001	1.96E+01
2001	2	12	2/12/2001	1.79E+01
2001	2	13	2/13/2001	1.72E+01
2001	2	14	2/14/2001	1.54E+01
2001	2	15	2/15/2001	1.33E+01
2001	2	16	2/16/2001	1.19E+01
2001	2	17	2/17/2001	1.16E+01
2001	2	18	2/18/2001	1.10E+01
2001	2	19	2/19/2001	1.01E+01
2001	2	20	2/20/2001	9.25E+00
2001	2	21	2/21/2001	8.68E+00
2001	2	22	2/22/2001	8.05E+00
2001	2	23	2/23/2001	7.94E+00
2001	2	24	2/24/2001	7.95E+00
2001	2	25	2/25/2001	7.36E+00
2001	2	26	2/26/2001	6.43E+00
2001	2	27	2/27/2001	5.79E+00
2001	2	28	2/28/2001	5.38E+00
2001	3	1	3/1/2001	5.03E+00
2001	3	2	3/2/2001	4.67E+00
2001	3	3	3/3/2001	4.36E+00

2001	3	4	3/4/2001	1.04E+01
2001	3	5	3/5/2001	1.29E+01
2001	3	6	3/6/2001	1.11E+01
2001	3	7	3/7/2001	9.72E+00
2001	3	8	3/8/2001	8.76E+00
2001	3	9	3/9/2001	8.44E+00
2001	3	10	3/10/2001	9.56E+00
2001	3	11	3/11/2001	8.68E+00
2001	3	12	3/12/2001	8.02E+00
2001	3	13	3/13/2001	2.97E+01
2001	3	14	3/14/2001	2.73E+01
2001	3	15	3/15/2001	2.70E+01
2001	3	16	3/16/2001	2.97E+01
2001	3	17	3/17/2001	2.66E+01
2001	3	18	3/18/2001	4.63E+01
2001	3	19	3/19/2001	6.78E+01
2001	3	20	3/20/2001	1.22E+02
2001	3	21	3/21/2001	1.29E+02
2001	3	22	3/22/2001	1.06E+02
2001	3	23	3/23/2001	8.71E+01
2001	3	24	3/24/2001	7.70E+01
2001	3	25	3/25/2001	7.76E+01
2001	3	26	3/26/2001	7.30E+01
2001	3	27	3/27/2001	6.07E+01
2001	3	28	3/28/2001	5.85E+01
2001	3	29	3/29/2001	6.26E+01
2001	3	30	3/30/2001	7.10E+01
2001	3	31	3/31/2001	6.06E+01
2001	4	1	4/1/2001	4.81E+01
2001	4	2	4/2/2001	4.15E+01
2001	4	3	4/3/2001	4.06E+01
2001	4	4	4/4/2001	4.60E+01
2001	4	5	4/5/2001	4.78E+01
2001	4	6	4/6/2001	4.28E+01
2001	4	7	4/7/2001	3.10E+01
2001	4	8	4/8/2001	2.68E+01
2001	4	9	4/9/2001	2.37E+01
2001	4	10	4/10/2001	2.06E+01
2001	4	11	4/11/2001	1.83E+01
2001	4	12	4/12/2001	1.64E+01
2001	4	13	4/13/2001	1.46E+01
2001	4	14	4/14/2001	1.28E+01
2001	4	15	4/15/2001	1.21E+01
2001	4	16	4/16/2001	1.46E+01
2001	4	17	4/17/2001	1.29E+01
2001	4	18	4/18/2001	1.11E+01
2001	4	19	4/19/2001	9.69E+00
2001	4	20	4/20/2001	8.32E+00
2001	4	21	4/21/2001	7.01E+00
2001	4	22	4/22/2001	5.93E+00
2001	4	23	4/23/2001	5.20E+00
2001	4	24	4/24/2001	4.64E+00
2001	4	25	4/25/2001	5.34E+00
2001	4	26	4/26/2001	6.65E+00
2001	4	27	4/27/2001	5.66E+00
2001	4	28	4/28/2001	4.82E+00
2001	4	29	4/29/2001	4.13E+00
2001	4	30	4/30/2001	3.61E+00

2001	5	1	5/1/2001	3.08E+00
2001	5	2	5/2/2001	2.56E+00
2001	5	3	5/3/2001	2.09E+00
2001	5	4	5/4/2001	1.67E+00
2001	5	5	5/5/2001	1.26E+00
2001	5	6	5/6/2001	9.05E-01
2001	5	7	5/7/2001	6.90E-01
2001	5	8	5/8/2001	5.62E-01
2001	5	9	5/9/2001	4.69E-01
2001	5	10	5/10/2001	4.16E-01
2001	5	11	5/11/2001	3.88E-01
2001	5	12	5/12/2001	9.95E-01
2001	5	13	5/13/2001	1.93E+00
2001	5	14	5/14/2001	1.69E+00
2001	5	15	5/15/2001	1.20E+00
2001	5	16	5/16/2001	7.94E-01
2001	5	17	5/17/2001	5.75E-01
2001	5	18	5/18/2001	4.60E-01
2001	5	19	5/19/2001	4.00E-01
2001	5	20	5/20/2001	3.78E-01
2001	5	21	5/21/2001	3.69E-01
2001	5	22	5/22/2001	3.60E-01
2001	5	23	5/23/2001	3.54E-01
2001	5	24	5/24/2001	3.49E-01
2001	5	25	5/25/2001	3.48E-01
2001	5	26	5/26/2001	3.48E-01
2001	5	27	5/27/2001	7.84E-01
2001	5	28	5/28/2001	1.20E+00
2001	5	29	5/29/2001	1.79E+00
2001	5	30	5/30/2001	2.61E+00
2001	5	31	5/31/2001	2.04E+00
2001	6	1	6/1/2001	1.42E+00
2001	6	2	6/2/2001	1.01E+00
2001	6	3	6/3/2001	8.22E-01
2001	6	4	6/4/2001	3.08E+00
2001	6	5	6/5/2001	2.55E+00
2001	6	6	6/6/2001	1.74E+00
2001	6	7	6/7/2001	2.27E+00
2001	6	8	6/8/2001	7.83E+00
2001	6	9	6/9/2001	5.56E+00
2001	6	10	6/10/2001	6.72E+00
2001	6	11	6/11/2001	7.60E+00
2001	6	12	6/12/2001	1.62E+02
2001	6	13	6/13/2001	7.98E+01
2001	6	14	6/14/2001	4.45E+01
2001	6	15	6/15/2001	3.88E+01
2001	6	16	6/16/2001	3.48E+01
2001	6	17	6/17/2001	4.72E+01
2001	6	18	6/18/2001	5.38E+01
2001	6	19	6/19/2001	3.73E+01
2001	6	20	6/20/2001	3.34E+01
2001	6	21	6/21/2001	3.12E+01
2001	6	22	6/22/2001	2.91E+01
2001	6	23	6/23/2001	2.66E+01
2001	6	24	6/24/2001	2.44E+01
2001	6	25	6/25/2001	2.26E+01
2001	6	26	6/26/2001	1.94E+01
2001	6	27	6/27/2001	1.81E+01

2001	6	28	6/28/2001	1.75E+01
2001	6	29	6/29/2001	1.85E+01
2001	6	30	6/30/2001	1.57E+01
2001	7	1	7/1/2001	1.33E+01
2001	7	2	7/2/2001	1.26E+01
2001	7	3	7/3/2001	1.17E+01
2001	7	4	7/4/2001	1.62E+01
2001	7	5	7/5/2001	2.18E+01
2001	7	6	7/6/2001	1.57E+01
2001	7	7	7/7/2001	1.29E+01
2001	7	8	7/8/2001	1.14E+01
2001	7	9	7/9/2001	1.01E+01
2001	7	10	7/10/2001	8.92E+00
2001	7	11	7/11/2001	7.73E+00
2001	7	12	7/12/2001	6.79E+00
2001	7	13	7/13/2001	6.37E+00
2001	7	14	7/14/2001	6.32E+00
2001	7	15	7/15/2001	5.39E+00
2001	7	16	7/16/2001	4.81E+00
2001	7	17	7/17/2001	4.22E+00
2001	7	18	7/18/2001	3.67E+00
2001	7	19	7/19/2001	3.18E+00
2001	7	20	7/20/2001	3.90E+00
2001	7	21	7/21/2001	7.41E+00
2001	7	22	7/22/2001	1.31E+01
2001	7	23	7/23/2001	1.27E+01
2001	7	24	7/24/2001	1.06E+01
2001	7	25	7/25/2001	8.14E+00
2001	7	26	7/26/2001	6.43E+00
2001	7	27	7/27/2001	5.60E+00
2001	7	28	7/28/2001	5.07E+00
2001	7	29	7/29/2001	4.54E+00
2001	7	30	7/30/2001	4.23E+00
2001	7	31	7/31/2001	4.30E+00
2001	8	1	8/1/2001	7.70E+00
2001	8	2	8/2/2001	1.99E+01
2001	8	3	8/3/2001	1.48E+01
2001	8	4	8/4/2001	1.07E+01
2001	8	5	8/5/2001	8.94E+00
2001	8	6	8/6/2001	8.32E+00
2001	8	7	8/7/2001	7.03E+00
2001	8	8	8/8/2001	5.92E+00
2001	8	9	8/9/2001	5.22E+00
2001	8	10	8/10/2001	6.20E+00
2001	8	11	8/11/2001	1.45E+01
2001	8	12	8/12/2001	9.13E+00
2001	8	13	8/13/2001	6.10E+00
2001	8	14	8/14/2001	8.42E+00
2001	8	15	8/15/2001	1.66E+01
2001	8	16	8/16/2001	1.13E+01
2001	8	17	8/17/2001	7.94E+00
2001	8	18	8/18/2001	7.07E+00
2001	8	19	8/19/2001	1.20E+01
2001	8	20	8/20/2001	9.62E+00
2001	8	21	8/21/2001	7.67E+00
2001	8	22	8/22/2001	6.60E+00
2001	8	23	8/23/2001	5.82E+00
2001	8	24	8/24/2001	5.23E+00

2001	8	25	8/25/2001	5.59E+00
2001	8	26	8/26/2001	4.89E+00
2001	8	27	8/27/2001	4.26E+00
2001	8	28	8/28/2001	3.69E+00
2001	8	29	8/29/2001	3.19E+00
2001	8	30	8/30/2001	2.76E+00
2001	8	31	8/31/2001	2.39E+00
2001	9	1	9/1/2001	4.31E+00
2001	9	2	9/2/2001	9.69E+00
2001	9	3	9/3/2001	8.93E+00
2001	9	4	9/4/2001	9.80E+00
2001	9	5	9/5/2001	7.25E+00
2001	9	6	9/6/2001	5.66E+00
2001	9	7	9/7/2001	7.06E+00
2001	9	8	9/8/2001	7.58E+00
2001	9	9	9/9/2001	6.23E+00
2001	9	10	9/10/2001	5.61E+00
2001	9	11	9/11/2001	5.19E+00
2001	9	12	9/12/2001	1.52E+02
2001	9	13	9/13/2001	1.80E+02
2001	9	14	9/14/2001	8.47E+01
2001	9	15	9/15/2001	7.96E+01
2001	9	16	9/16/2001	6.83E+01
2001	9	17	9/17/2001	6.02E+01
2001	9	18	9/18/2001	5.49E+01
2001	9	19	9/19/2001	4.97E+01
2001	9	20	9/20/2001	4.45E+01
2001	9	21	9/21/2001	3.99E+01
2001	9	22	9/22/2001	3.63E+01
2001	9	23	9/23/2001	7.92E+01
2001	9	24	9/24/2001	9.21E+01
2001	9	25	9/25/2001	6.89E+01
2001	9	26	9/26/2001	6.57E+01
2001	9	27	9/27/2001	6.37E+01
2001	9	28	9/28/2001	5.64E+01
2001	9	29	9/29/2001	5.11E+01
2001	9	30	9/30/2001	4.72E+01
2001	10	1	10/1/2001	4.11E+01
2001	10	2	10/2/2001	3.69E+01
2001	10	3	10/3/2001	3.32E+01
2001	10	4	10/4/2001	3.00E+01
2001	10	5	10/5/2001	2.71E+01
2001	10	6	10/6/2001	2.52E+01
2001	10	7	10/7/2001	2.35E+01
2001	10	8	10/8/2001	2.11E+01
2001	10	9	10/9/2001	1.95E+01
2001	10	10	10/10/2001	1.86E+01
2001	10	11	10/11/2001	1.77E+01
2001	10	12	10/12/2001	1.64E+01
2001	10	13	10/13/2001	1.48E+01
2001	10	14	10/14/2001	1.40E+01
2001	10	15	10/15/2001	1.34E+01
2001	10	16	10/16/2001	1.18E+01
2001	10	17	10/17/2001	1.08E+01
2001	10	18	10/18/2001	1.00E+01
2001	10	19	10/19/2001	9.22E+00
2001	10	20	10/20/2001	8.35E+00
2001	10	21	10/21/2001	7.57E+00

2001	10	22	10/22/2001	6.90E+00
2001	10	23	10/23/2001	6.89E+00
2001	10	24	10/24/2001	6.90E+00
2001	10	25	10/25/2001	6.36E+00
2001	10	26	10/26/2001	5.60E+00
2001	10	27	10/27/2001	5.20E+00
2001	10	28	10/28/2001	4.88E+00
2001	10	29	10/29/2001	4.57E+00
2001	10	30	10/30/2001	4.25E+00
2001	10	31	10/31/2001	3.91E+00
2001	11	1	11/1/2001	3.57E+00
2001	11	2	11/2/2001	3.64E+00
2001	11	3	11/3/2001	3.39E+00
2001	11	4	11/4/2001	3.04E+00
2001	11	5	11/5/2001	2.75E+00
2001	11	6	11/6/2001	2.52E+00
2001	11	7	11/7/2001	2.30E+00
2001	11	8	11/8/2001	2.09E+00
2001	11	9	11/9/2001	1.90E+00
2001	11	10	11/10/2001	1.71E+00
2001	11	11	11/11/2001	1.55E+00
2001	11	12	11/12/2001	1.40E+00
2001	11	13	11/13/2001	1.72E+00
2001	11	14	11/14/2001	2.11E+00
2001	11	15	11/15/2001	2.20E+00
2001	11	16	11/16/2001	2.01E+00
2001	11	17	11/17/2001	1.79E+00
2001	11	18	11/18/2001	1.59E+00
2001	11	19	11/19/2001	1.43E+00
2001	11	20	11/20/2001	1.29E+00
2001	11	21	11/21/2001	1.16E+00
2001	11	22	11/22/2001	1.05E+00
2001	11	23	11/23/2001	9.61E-01
2001	11	24	11/24/2001	9.15E-01
2001	11	25	11/25/2001	8.14E-01
2001	11	26	11/26/2001	7.24E-01
2001	11	27	11/27/2001	6.41E-01
2001	11	28	11/28/2001	5.69E-01
2001	11	29	11/29/2001	5.34E-01
2001	11	30	11/30/2001	4.97E-01
2001	12	1	12/1/2001	4.69E-01
2001	12	2	12/2/2001	4.53E-01
2001	12	3	12/3/2001	4.45E-01
2001	12	4	12/4/2001	4.40E-01
2001	12	5	12/5/2001	4.36E-01
2001	12	6	12/6/2001	4.35E-01
2001	12	7	12/7/2001	4.35E-01
2001	12	8	12/8/2001	1.04E+00
2001	12	9	12/9/2001	2.53E+00
2001	12	10	12/10/2001	2.63E+00
2001	12	11	12/11/2001	2.34E+00
2001	12	12	12/12/2001	2.02E+00
2001	12	13	12/13/2001	1.78E+00
2001	12	14	12/14/2001	1.63E+00
2001	12	15	12/15/2001	1.53E+00
2001	12	16	12/16/2001	1.42E+00
2001	12	17	12/17/2001	1.32E+00
2001	12	18	12/18/2001	1.69E+00

2001	12	19	12/19/2001	1.61E+00
2001	12	20	12/20/2001	1.48E+00
2001	12	21	12/21/2001	1.36E+00
2001	12	22	12/22/2001	1.26E+00
2001	12	23	12/23/2001	1.18E+00
2001	12	24	12/24/2001	3.44E+00
2001	12	25	12/25/2001	3.93E+00
2001	12	26	12/26/2001	3.67E+00
2001	12	27	12/27/2001	3.22E+00
2001	12	28	12/28/2001	2.86E+00
2001	12	29	12/29/2001	2.64E+00
2001	12	30	12/30/2001	2.49E+00
2001	12	31	12/31/2001	2.39E+00
2002	1	1	1/1/2002	2.32E+00
2002	1	2	1/2/2002	4.04E+00
2002	1	3	1/3/2002	5.77E+00
2002	1	4	1/4/2002	5.59E+00
2002	1	5	1/5/2002	5.05E+00
2002	1	6	1/6/2002	5.06E+00
2002	1	7	1/7/2002	5.04E+00
2002	1	8	1/8/2002	4.77E+00
2002	1	9	1/9/2002	4.47E+00
2002	1	10	1/10/2002	4.18E+00
2002	1	11	1/11/2002	3.91E+00
2002	1	12	1/12/2002	3.72E+00
2002	1	13	1/13/2002	6.50E+00
2002	1	14	1/14/2002	1.11E+01
2002	1	15	1/15/2002	2.17E+01
2002	1	16	1/16/2002	1.72E+01
2002	1	17	1/17/2002	1.48E+01
2002	1	18	1/18/2002	1.35E+01
2002	1	19	1/19/2002	1.24E+01
2002	1	20	1/20/2002	1.15E+01
2002	1	21	1/21/2002	1.78E+01
2002	1	22	1/22/2002	2.39E+01
2002	1	23	1/23/2002	1.90E+01
2002	1	24	1/24/2002	1.67E+01
2002	1	25	1/25/2002	1.69E+01
2002	1	26	1/26/2002	1.85E+01
2002	1	27	1/27/2002	1.70E+01
2002	1	28	1/28/2002	1.51E+01
2002	1	29	1/29/2002	1.36E+01
2002	1	30	1/30/2002	1.26E+01
2002	1	31	1/31/2002	1.18E+01
2002	2	1	2/1/2002	1.08E+01
2002	2	2	2/2/2002	9.92E+00
2002	2	3	2/3/2002	9.31E+00
2002	2	4	2/4/2002	8.73E+00
2002	2	5	2/5/2002	8.28E+00
2002	2	6	2/6/2002	8.09E+00
2002	2	7	2/7/2002	1.15E+01
2002	2	8	2/8/2002	1.41E+01
2002	2	9	2/9/2002	1.18E+01
2002	2	10	2/10/2002	1.05E+01
2002	2	11	2/11/2002	9.71E+00
2002	2	12	2/12/2002	8.88E+00
2002	2	13	2/13/2002	8.59E+00
2002	2	14	2/14/2002	8.36E+00

2002	2	15	2/15/2002	7.50E+00
2002	2	16	2/16/2002	6.89E+00
2002	2	17	2/17/2002	6.26E+00
2002	2	18	2/18/2002	5.72E+00
2002	2	19	2/19/2002	5.35E+00
2002	2	20	2/20/2002	5.07E+00
2002	2	21	2/21/2002	4.89E+00
2002	2	22	2/22/2002	4.64E+00
2002	2	23	2/23/2002	8.28E+00
2002	2	24	2/24/2002	1.18E+01
2002	2	25	2/25/2002	9.85E+00
2002	2	26	2/26/2002	8.36E+00
2002	2	27	2/27/2002	7.50E+00
2002	2	28	2/28/2002	6.92E+00
2002	3	1	3/1/2002	6.40E+00
2002	3	2	3/2/2002	2.45E+01
2002	3	3	3/3/2002	1.23E+03
2002	3	4	3/4/2002	3.14E+02
2002	3	5	3/5/2002	1.96E+02
2002	3	6	3/6/2002	1.77E+02
2002	3	7	3/7/2002	1.58E+02
2002	3	8	3/8/2002	1.41E+02
2002	3	9	3/9/2002	1.23E+02
2002	3	10	3/10/2002	1.06E+02
2002	3	11	3/11/2002	9.51E+01
2002	3	12	3/12/2002	9.08E+01
2002	3	13	3/13/2002	8.31E+01
2002	3	14	3/14/2002	6.93E+01
2002	3	15	3/15/2002	5.95E+01
2002	3	16	3/16/2002	5.26E+01
2002	3	17	3/17/2002	4.69E+01
2002	3	18	3/18/2002	4.16E+01
2002	3	19	3/19/2002	3.68E+01
2002	3	20	3/20/2002	3.27E+01
2002	3	21	3/21/2002	4.68E+01
2002	3	22	3/22/2002	4.71E+01
2002	3	23	3/23/2002	3.50E+01
2002	3	24	3/24/2002	3.03E+01
2002	3	25	3/25/2002	2.68E+01
2002	3	26	3/26/2002	2.63E+01
2002	3	27	3/27/2002	3.03E+01
2002	3	28	3/28/2002	2.63E+01
2002	3	29	3/29/2002	2.32E+01
2002	3	30	3/30/2002	2.07E+01
2002	3	31	3/31/2002	1.90E+01
2002	4	1	4/1/2002	1.74E+01
2002	4	2	4/2/2002	1.55E+01
2002	4	3	4/3/2002	1.40E+01
2002	4	4	4/4/2002	1.27E+01
2002	4	5	4/5/2002	1.14E+01
2002	4	6	4/6/2002	1.02E+01
2002	4	7	4/7/2002	9.02E+00
2002	4	8	4/8/2002	7.85E+00
2002	4	9	4/9/2002	6.76E+00
2002	4	10	4/10/2002	6.45E+00
2002	4	11	4/11/2002	8.82E+00
2002	4	12	4/12/2002	8.49E+00
2002	4	13	4/13/2002	7.35E+00

2002	4	14	4/14/2002	6.24E+00
2002	4	15	4/15/2002	5.38E+00
2002	4	16	4/16/2002	4.71E+00
2002	4	17	4/17/2002	4.11E+00
2002	4	18	4/18/2002	3.57E+00
2002	4	19	4/19/2002	3.05E+00
2002	4	20	4/20/2002	2.57E+00
2002	4	21	4/21/2002	2.12E+00
2002	4	22	4/22/2002	1.70E+00
2002	4	23	4/23/2002	1.32E+00
2002	4	24	4/24/2002	9.79E-01
2002	4	25	4/25/2002	7.28E-01
2002	4	26	4/26/2002	5.86E-01
2002	4	27	4/27/2002	5.10E-01
2002	4	28	4/28/2002	4.64E-01
2002	4	29	4/29/2002	4.33E-01
2002	4	30	4/30/2002	4.16E-01
2002	5	1	5/1/2002	4.03E-01
2002	5	2	5/2/2002	3.91E-01
2002	5	3	5/3/2002	3.80E-01
2002	5	4	5/4/2002	3.75E-01
2002	5	5	5/5/2002	3.85E-01
2002	5	6	5/6/2002	3.89E-01
2002	5	7	5/7/2002	3.81E-01
2002	5	8	5/8/2002	3.72E-01
2002	5	9	5/9/2002	3.66E-01
2002	5	10	5/10/2002	3.63E-01
2002	5	11	5/11/2002	3.60E-01
2002	5	12	5/12/2002	3.58E-01
2002	5	13	5/13/2002	3.60E-01
2002	5	14	5/14/2002	2.02E+00
2002	5	15	5/15/2002	1.91E+00
2002	5	16	5/16/2002	1.44E+00
2002	5	17	5/17/2002	1.96E+00
2002	5	18	5/18/2002	4.26E+00
2002	5	19	5/19/2002	1.18E+01
2002	5	20	5/20/2002	7.27E+00
2002	5	21	5/21/2002	4.71E+00
2002	5	22	5/22/2002	3.42E+00
2002	5	23	5/23/2002	2.58E+00
2002	5	24	5/24/2002	2.02E+00
2002	5	25	5/25/2002	1.61E+00
2002	5	26	5/26/2002	1.28E+00
2002	5	27	5/27/2002	1.02E+00
2002	5	28	5/28/2002	8.17E-01
2002	5	29	5/29/2002	7.12E-01
2002	5	30	5/30/2002	6.28E-01
2002	5	31	5/31/2002	5.59E-01
2002	6	1	6/1/2002	5.00E-01
2002	6	2	6/2/2002	4.45E-01
2002	6	3	6/3/2002	4.06E-01
2002	6	4	6/4/2002	3.93E-01
2002	6	5	6/5/2002	3.93E-01
2002	6	6	6/6/2002	3.87E-01
2002	6	7	6/7/2002	8.67E-01
2002	6	8	6/8/2002	9.69E+00
2002	6	9	6/9/2002	8.25E+00
2002	6	10	6/10/2002	6.78E+00

2002	6	11	6/11/2002	6.46E+00
2002	6	12	6/12/2002	4.54E+00
2002	6	13	6/13/2002	3.20E+00
2002	6	14	6/14/2002	2.38E+00
2002	6	15	6/15/2002	2.48E+00
2002	6	16	6/16/2002	1.95E+00
2002	6	17	6/17/2002	1.52E+00
2002	6	18	6/18/2002	1.72E+00
2002	6	19	6/19/2002	2.90E+00
2002	6	20	6/20/2002	2.63E+00
2002	6	21	6/21/2002	1.75E+01
2002	6	22	6/22/2002	3.60E+01
2002	6	23	6/23/2002	2.24E+01
2002	6	24	6/24/2002	1.67E+01
2002	6	25	6/25/2002	1.33E+01
2002	6	26	6/26/2002	1.38E+01
2002	6	27	6/27/2002	1.38E+01
2002	6	28	6/28/2002	1.12E+01
2002	6	29	6/29/2002	9.76E+00
2002	6	30	6/30/2002	8.74E+00
2002	7	1	7/1/2002	7.52E+00
2002	7	2	7/2/2002	6.43E+00
2002	7	3	7/3/2002	5.69E+00
2002	7	4	7/4/2002	5.14E+00
2002	7	5	7/5/2002	4.60E+00
2002	7	6	7/6/2002	4.15E+00
2002	7	7	7/7/2002	3.74E+00
2002	7	8	7/8/2002	3.32E+00
2002	7	9	7/9/2002	2.82E+00
2002	7	10	7/10/2002	2.36E+00
2002	7	11	7/11/2002	1.97E+00
2002	7	12	7/12/2002	1.68E+00
2002	7	13	7/13/2002	1.50E+00
2002	7	14	7/14/2002	1.49E+00
2002	7	15	7/15/2002	1.80E+00
2002	7	16	7/16/2002	1.48E+00
2002	7	17	7/17/2002	1.20E+00
2002	7	18	7/18/2002	9.89E-01
2002	7	19	7/19/2002	8.41E-01
2002	7	20	7/20/2002	3.96E+00
2002	7	21	7/21/2002	1.19E+01
2002	7	22	7/22/2002	6.33E+00
2002	7	23	7/23/2002	1.12E+01
2002	7	24	7/24/2002	3.32E+01
2002	7	25	7/25/2002	2.18E+01
2002	7	26	7/26/2002	1.34E+01
2002	7	27	7/27/2002	1.39E+01
2002	7	28	7/28/2002	1.09E+01
2002	7	29	7/29/2002	8.69E+00
2002	7	30	7/30/2002	7.38E+00
2002	7	31	7/31/2002	6.39E+00
2002	8	1	8/1/2002	5.91E+00
2002	8	2	8/2/2002	5.31E+00
2002	8	3	8/3/2002	5.05E+00
2002	8	4	8/4/2002	5.01E+00
2002	8	5	8/5/2002	5.30E+00
2002	8	6	8/6/2002	4.42E+00
2002	8	7	8/7/2002	4.77E+00

2002	8	8	8/8/2002	4.36E+00
2002	8	9	8/9/2002	3.52E+00
2002	8	10	8/10/2002	2.84E+00
2002	8	11	8/11/2002	2.49E+00
2002	8	12	8/12/2002	2.17E+00
2002	8	13	8/13/2002	4.06E+00
2002	8	14	8/14/2002	1.09E+01
2002	8	15	8/15/2002	6.51E+00
2002	8	16	8/16/2002	4.26E+00
2002	8	17	8/17/2002	3.06E+00
2002	8	18	8/18/2002	2.33E+00
2002	8	19	8/19/2002	1.99E+00
2002	8	20	8/20/2002	2.07E+00
2002	8	21	8/21/2002	1.79E+00
2002	8	22	8/22/2002	1.51E+00
2002	8	23	8/23/2002	1.28E+00
2002	8	24	8/24/2002	1.12E+00
2002	8	25	8/25/2002	1.66E+00
2002	8	26	8/26/2002	4.73E+00
2002	8	27	8/27/2002	8.84E+00
2002	8	28	8/28/2002	2.38E+01
2002	8	29	8/29/2002	1.76E+01
2002	8	30	8/30/2002	1.33E+01
2002	8	31	8/31/2002	2.19E+01
2002	9	1	9/1/2002	2.32E+01
2002	9	2	9/2/2002	1.86E+01
2002	9	3	9/3/2002	1.64E+01
2002	9	4	9/4/2002	1.44E+01
2002	9	5	9/5/2002	1.32E+01
2002	9	6	9/6/2002	1.17E+01
2002	9	7	9/7/2002	1.07E+01
2002	9	8	9/8/2002	1.06E+01
2002	9	9	9/9/2002	9.53E+00
2002	9	10	9/10/2002	8.09E+00
2002	9	11	9/11/2002	6.97E+00
2002	9	12	9/12/2002	6.13E+00
2002	9	13	9/13/2002	1.28E+01
2002	9	14	9/14/2002	2.63E+01
2002	9	15	9/15/2002	2.66E+01
2002	9	16	9/16/2002	2.80E+01
2002	9	17	9/17/2002	2.26E+01
2002	9	18	9/18/2002	1.99E+01
2002	9	19	9/19/2002	2.17E+01
2002	9	20	9/20/2002	2.28E+01
2002	9	21	9/21/2002	1.87E+01
2002	9	22	9/22/2002	1.66E+01
2002	9	23	9/23/2002	1.52E+01
2002	9	24	9/24/2002	1.98E+01
2002	9	25	9/25/2002	5.38E+01
2002	9	26	9/26/2002	6.40E+01
2002	9	27	9/27/2002	5.48E+01
2002	9	28	9/28/2002	4.95E+01
2002	9	29	9/29/2002	4.65E+01
2002	9	30	9/30/2002	4.19E+01
2002	10	1	10/1/2002	3.90E+01
2002	10	2	10/2/2002	3.62E+01
2002	10	3	10/3/2002	3.36E+01
2002	10	4	10/4/2002	3.05E+01

2002	10	5	10/5/2002	2.73E+01
2002	10	6	10/6/2002	2.38E+01
2002	10	7	10/7/2002	2.28E+01
2002	10	8	10/8/2002	3.45E+01
2002	10	9	10/9/2002	6.27E+01
2002	10	10	10/10/2002	6.72E+01
2002	10	11	10/11/2002	8.94E+01
2002	10	12	10/12/2002	7.80E+01
2002	10	13	10/13/2002	7.14E+01
2002	10	14	10/14/2002	6.68E+01
2002	10	15	10/15/2002	7.44E+01
2002	10	16	10/16/2002	7.37E+01
2002	10	17	10/17/2002	6.26E+01
2002	10	18	10/18/2002	5.35E+01
2002	10	19	10/19/2002	4.91E+01
2002	10	20	10/20/2002	4.50E+01
2002	10	21	10/21/2002	4.26E+01
2002	10	22	10/22/2002	4.82E+01
2002	10	23	10/23/2002	4.64E+01
2002	10	24	10/24/2002	4.46E+01
2002	10	25	10/25/2002	4.89E+01
2002	10	26	10/26/2002	5.02E+01
2002	10	27	10/27/2002	4.43E+01
2002	10	28	10/28/2002	3.71E+01
2002	10	29	10/29/2002	3.22E+01
2002	10	30	10/30/2002	3.01E+01
2002	10	31	10/31/2002	2.70E+01
2002	11	1	11/1/2002	2.48E+01
2002	11	2	11/2/2002	2.29E+01
2002	11	3	11/3/2002	2.14E+01
2002	11	4	11/4/2002	2.14E+01
2002	11	5	11/5/2002	2.07E+01
2002	11	6	11/6/2002	1.89E+01
2002	11	7	11/7/2002	1.74E+01
2002	11	8	11/8/2002	1.57E+01
2002	11	9	11/9/2002	1.45E+01
2002	11	10	11/10/2002	1.35E+01
2002	11	11	11/11/2002	1.24E+01
2002	11	12	11/12/2002	2.77E+01
2002	11	13	11/13/2002	5.07E+01
2002	11	14	11/14/2002	4.86E+01
2002	11	15	11/15/2002	4.65E+01
2002	11	16	11/16/2002	1.24E+02
2002	11	17	11/17/2002	1.75E+02
2002	11	18	11/18/2002	1.19E+02
2002	11	19	11/19/2002	1.07E+02
2002	11	20	11/20/2002	1.00E+02
2002	11	21	11/21/2002	9.94E+01
2002	11	22	11/22/2002	9.33E+01
2002	11	23	11/23/2002	8.43E+01
2002	11	24	11/24/2002	7.80E+01
2002	11	25	11/25/2002	7.09E+01
2002	11	26	11/26/2002	6.53E+01
2002	11	27	11/27/2002	5.99E+01
2002	11	28	11/28/2002	5.49E+01
2002	11	29	11/29/2002	5.05E+01
2002	11	30	11/30/2002	4.70E+01
2002	12	1	12/1/2002	4.32E+01

2002	12	2	12/2/2002	3.85E+01
2002	12	3	12/3/2002	3.52E+01
2002	12	4	12/4/2002	3.39E+01
2002	12	5	12/5/2002	3.45E+01
2002	12	6	12/6/2002	3.33E+01
2002	12	7	12/7/2002	2.94E+01
2002	12	8	12/8/2002	2.49E+01
2002	12	9	12/9/2002	2.47E+01
2002	12	10	12/10/2002	2.49E+01
2002	12	11	12/11/2002	2.34E+01
2002	12	12	12/12/2002	2.14E+01
2002	12	13	12/13/2002	1.96E+01
2002	12	14	12/14/2002	1.79E+01
2002	12	15	12/15/2002	1.59E+01
2002	12	16	12/16/2002	1.47E+01
2002	12	17	12/17/2002	1.42E+01
2002	12	18	12/18/2002	1.50E+01
2002	12	19	12/19/2002	1.32E+01
2002	12	20	12/20/2002	1.36E+01
2002	12	21	12/21/2002	1.44E+01
2002	12	22	12/22/2002	1.40E+01
2002	12	23	12/23/2002	1.33E+01
2002	12	24	12/24/2002	2.68E+01
2002	12	25	12/25/2002	5.23E+01
2002	12	26	12/26/2002	4.12E+01
2002	12	27	12/27/2002	3.78E+01
2002	12	28	12/28/2002	3.51E+01
2002	12	29	12/29/2002	3.30E+01
2002	12	30	12/30/2002	3.13E+01
2002	12	31	12/31/2002	3.54E+01
2003	1	1	1/1/2003	1.01E+02
2003	1	2	1/2/2003	7.20E+01
2003	1	3	1/3/2003	6.52E+01
2003	1	4	1/4/2003	6.04E+01
2003	1	5	1/5/2003	5.46E+01
2003	1	6	1/6/2003	4.99E+01
2003	1	7	1/7/2003	4.58E+01
2003	1	8	1/8/2003	4.20E+01
2003	1	9	1/9/2003	3.76E+01
2003	1	10	1/10/2003	3.50E+01
2003	1	11	1/11/2003	3.35E+01
2003	1	12	1/12/2003	3.15E+01
2003	1	13	1/13/2003	3.29E+01
2003	1	14	1/14/2003	3.01E+01
2003	1	15	1/15/2003	2.49E+01
2003	1	16	1/16/2003	2.22E+01
2003	1	17	1/17/2003	2.05E+01
2003	1	18	1/18/2003	1.93E+01
2003	1	19	1/19/2003	1.78E+01
2003	1	20	1/20/2003	1.62E+01
2003	1	21	1/21/2003	1.48E+01
2003	1	22	1/22/2003	1.65E+01
2003	1	23	1/23/2003	2.02E+01
2003	1	24	1/24/2003	1.77E+01
2003	1	25	1/25/2003	1.63E+01
2003	1	26	1/26/2003	1.52E+01
2003	1	27	1/27/2003	1.39E+01
2003	1	28	1/28/2003	1.27E+01

2003	1	29	1/29/2003	1.16E+01
2003	1	30	1/30/2003	1.07E+01
2003	1	31	1/31/2003	1.03E+01
2003	2	1	2/1/2003	1.01E+01
2003	2	2	2/2/2003	8.91E+00
2003	2	3	2/3/2003	8.04E+00
2003	2	4	2/4/2003	7.82E+00
2003	2	5	2/5/2003	7.41E+00
2003	2	6	2/6/2003	7.00E+00
2003	2	7	2/7/2003	2.57E+01
2003	2	8	2/8/2003	2.74E+01
2003	2	9	2/9/2003	2.55E+01
2003	2	10	2/10/2003	5.45E+01
2003	2	11	2/11/2003	4.41E+01
2003	2	12	2/12/2003	3.71E+01
2003	2	13	2/13/2003	3.35E+01
2003	2	14	2/14/2003	3.12E+01
2003	2	15	2/15/2003	2.87E+01
2003	2	16	2/16/2003	5.07E+01
2003	2	17	2/17/2003	9.83E+01
2003	2	18	2/18/2003	7.65E+01
2003	2	19	2/19/2003	6.43E+01
2003	2	20	2/20/2003	5.86E+01
2003	2	21	2/21/2003	5.80E+01
2003	2	22	2/22/2003	7.36E+01
2003	2	23	2/23/2003	9.59E+01
2003	2	24	2/24/2003	7.21E+01
2003	2	25	2/25/2003	6.60E+01
2003	2	26	2/26/2003	6.67E+01
2003	2	27	2/27/2003	3.75E+02
2003	2	28	2/28/2003	2.30E+02
2003	3	1	3/1/2003	5.09E+02
2003	3	2	3/2/2003	4.77E+02
2003	3	3	3/3/2003	3.53E+02
2003	3	4	3/4/2003	5.32E+02
2003	3	5	3/5/2003	5.05E+02
2003	3	6	3/6/2003	4.41E+02
2003	3	7	3/7/2003	8.51E+02
2003	3	8	3/8/2003	5.58E+02
2003	3	9	3/9/2003	8.01E+02
2003	3	10	3/10/2003	5.97E+02
2003	3	11	3/11/2003	5.11E+02
2003	3	12	3/12/2003	4.41E+02
2003	3	13	3/13/2003	3.87E+02
2003	3	14	3/14/2003	3.39E+02
2003	3	15	3/15/2003	3.09E+02
2003	3	16	3/16/2003	2.77E+02
2003	3	17	3/17/2003	3.92E+02
2003	3	18	3/18/2003	5.30E+02
2003	3	19	3/19/2003	2.78E+02
2003	3	20	3/20/2003	2.39E+02
2003	3	21	3/21/2003	2.01E+02
2003	3	22	3/22/2003	1.69E+02
2003	3	23	3/23/2003	1.53E+02
2003	3	24	3/24/2003	1.28E+02
2003	3	25	3/25/2003	1.03E+02
2003	3	26	3/26/2003	8.74E+01
2003	3	27	3/27/2003	8.05E+01

2003	3	28	3/28/2003	7.08E+01
2003	3	29	3/29/2003	5.71E+01
2003	3	30	3/30/2003	5.67E+01
2003	3	31	3/31/2003	5.58E+01
2003	4	1	4/1/2003	4.30E+01
2003	4	2	4/2/2003	3.60E+01
2003	4	3	4/3/2003	3.08E+01
2003	4	4	4/4/2003	2.66E+01
2003	4	5	4/5/2003	2.28E+01
2003	4	6	4/6/2003	1.94E+01
2003	4	7	4/7/2003	1.74E+01
2003	4	8	4/8/2003	5.55E+01
2003	4	9	4/9/2003	1.35E+02
2003	4	10	4/10/2003	1.68E+02
2003	4	11	4/11/2003	1.25E+02
2003	4	12	4/12/2003	1.01E+02
2003	4	13	4/13/2003	8.50E+01
2003	4	14	4/14/2003	7.35E+01
2003	4	15	4/15/2003	6.35E+01
2003	4	16	4/16/2003	5.53E+01
2003	4	17	4/17/2003	4.78E+01
2003	4	18	4/18/2003	4.10E+01
2003	4	19	4/19/2003	3.56E+01
2003	4	20	4/20/2003	3.12E+01
2003	4	21	4/21/2003	2.72E+01
2003	4	22	4/22/2003	2.31E+01
2003	4	23	4/23/2003	1.95E+01
2003	4	24	4/24/2003	1.69E+01
2003	4	25	4/25/2003	1.86E+01
2003	4	26	4/26/2003	2.46E+01
2003	4	27	4/27/2003	2.03E+01
2003	4	28	4/28/2003	1.67E+01
2003	4	29	4/29/2003	1.42E+01
2003	4	30	4/30/2003	1.20E+01
2003	5	1	5/1/2003	1.05E+01
2003	5	2	5/2/2003	9.54E+00
2003	5	3	5/3/2003	1.17E+01
2003	5	4	5/4/2003	1.14E+01
2003	5	5	5/5/2003	9.82E+00
2003	5	6	5/6/2003	8.28E+00
2003	5	7	5/7/2003	6.93E+00
2003	5	8	5/8/2003	5.80E+00
2003	5	9	5/9/2003	4.98E+00
2003	5	10	5/10/2003	4.17E+00
2003	5	11	5/11/2003	3.34E+00
2003	5	12	5/12/2003	2.56E+00
2003	5	13	5/13/2003	1.85E+00
2003	5	14	5/14/2003	1.32E+00
2003	5	15	5/15/2003	1.02E+00
2003	5	16	5/16/2003	8.48E-01
2003	5	17	5/17/2003	7.19E-01
2003	5	18	5/18/2003	1.97E+00
2003	5	19	5/19/2003	9.61E+00
2003	5	20	5/20/2003	1.48E+01
2003	5	21	5/21/2003	1.11E+01
2003	5	22	5/22/2003	9.39E+00
2003	5	23	5/23/2003	1.42E+01
2003	5	24	5/24/2003	1.28E+01

2003	5	25	5/25/2003	1.08E+01
2003	5	26	5/26/2003	9.29E+00
2003	5	27	5/27/2003	8.02E+00
2003	5	28	5/28/2003	6.83E+00
2003	5	29	5/29/2003	5.83E+00
2003	5	30	5/30/2003	5.12E+00
2003	5	31	5/31/2003	4.48E+00
2003	6	1	6/1/2003	3.80E+00
2003	6	2	6/2/2003	3.14E+00
2003	6	3	6/3/2003	3.52E+00
2003	6	4	6/4/2003	9.35E+00
2003	6	5	6/5/2003	9.39E+00
2003	6	6	6/6/2003	7.81E+00
2003	6	7	6/7/2003	9.23E+00
2003	6	8	6/8/2003	1.76E+01
2003	6	9	6/9/2003	1.37E+01
2003	6	10	6/10/2003	1.01E+01
2003	6	11	6/11/2003	8.25E+00
2003	6	12	6/12/2003	7.09E+00
2003	6	13	6/13/2003	6.51E+00
2003	6	14	6/14/2003	6.63E+00
2003	6	15	6/15/2003	5.51E+00
2003	6	16	6/16/2003	4.78E+00
2003	6	17	6/17/2003	1.14E+01
2003	6	18	6/18/2003	2.50E+01
2003	6	19	6/19/2003	3.90E+01
2003	6	20	6/20/2003	2.16E+01
2003	6	21	6/21/2003	1.74E+01
2003	6	22	6/22/2003	1.52E+01
2003	6	23	6/23/2003	1.35E+01
2003	6	24	6/24/2003	1.20E+01
2003	6	25	6/25/2003	1.05E+01
2003	6	26	6/26/2003	9.25E+00
2003	6	27	6/27/2003	8.06E+00
2003	6	28	6/28/2003	7.36E+00
2003	6	29	6/29/2003	7.11E+00
2003	6	30	6/30/2003	6.27E+00
2003	7	1	7/1/2003	5.57E+00
2003	7	2	7/2/2003	5.09E+00
2003	7	3	7/3/2003	4.83E+00
2003	7	4	7/4/2003	4.51E+00
2003	7	5	7/5/2003	3.97E+00
2003	7	6	7/6/2003	3.46E+00
2003	7	7	7/7/2003	2.88E+00
2003	7	8	7/8/2003	2.38E+00
2003	7	9	7/9/2003	1.92E+00
2003	7	10	7/10/2003	1.53E+00
2003	7	11	7/11/2003	1.20E+00
2003	7	12	7/12/2003	9.31E-01
2003	7	13	7/13/2003	1.27E+00
2003	7	14	7/14/2003	9.37E+00
2003	7	15	7/15/2003	1.67E+01
2003	7	16	7/16/2003	8.37E+00
2003	7	17	7/17/2003	5.08E+00
2003	7	18	7/18/2003	5.63E+00
2003	7	19	7/19/2003	7.33E+00
2003	7	20	7/20/2003	5.43E+00
2003	7	21	7/21/2003	4.40E+00

2003	7	22	7/22/2003	6.32E+00
2003	7	23	7/23/2003	1.05E+01
2003	7	24	7/24/2003	7.68E+00
2003	7	25	7/25/2003	7.81E+00
2003	7	26	7/26/2003	8.19E+00
2003	7	27	7/27/2003	6.13E+00
2003	7	28	7/28/2003	5.26E+00
2003	7	29	7/29/2003	4.72E+00
2003	7	30	7/30/2003	4.13E+00
2003	7	31	7/31/2003	3.78E+00
2003	8	1	8/1/2003	5.54E+00
2003	8	2	8/2/2003	1.12E+01
2003	8	3	8/3/2003	7.70E+00
2003	8	4	8/4/2003	6.79E+00
2003	8	5	8/5/2003	6.84E+00
2003	8	6	8/6/2003	5.65E+00
2003	8	7	8/7/2003	1.47E+01
2003	8	8	8/8/2003	2.47E+01
2003	8	9	8/9/2003	1.48E+01
2003	8	10	8/10/2003	1.39E+01
2003	8	11	8/11/2003	1.25E+01
2003	8	12	8/12/2003	1.34E+01
2003	8	13	8/13/2003	1.27E+01
2003	8	14	8/14/2003	1.17E+01
2003	8	15	8/15/2003	1.08E+01
2003	8	16	8/16/2003	9.44E+00
2003	8	17	8/17/2003	1.15E+01
2003	8	18	8/18/2003	1.06E+01
2003	8	19	8/19/2003	1.31E+01
2003	8	20	8/20/2003	1.09E+01
2003	8	21	8/21/2003	9.49E+00
2003	8	22	8/22/2003	9.74E+00
2003	8	23	8/23/2003	8.52E+00
2003	8	24	8/24/2003	7.26E+00
2003	8	25	8/25/2003	6.29E+00
2003	8	26	8/26/2003	5.66E+00
2003	8	27	8/27/2003	5.16E+00
2003	8	28	8/28/2003	4.66E+00
2003	8	29	8/29/2003	4.22E+00
2003	8	30	8/30/2003	3.81E+00
2003	8	31	8/31/2003	3.39E+00
2003	9	1	9/1/2003	3.41E+00
2003	9	2	9/2/2003	3.19E+00
2003	9	3	9/3/2003	2.75E+00
2003	9	4	9/4/2003	2.61E+00
2003	9	5	9/5/2003	2.65E+00
2003	9	6	9/6/2003	4.75E+01
2003	9	7	9/7/2003	4.94E+01
2003	9	8	9/8/2003	2.07E+01
2003	9	9	9/9/2003	1.52E+01
2003	9	10	9/10/2003	1.32E+01
2003	9	11	9/11/2003	1.20E+01
2003	9	12	9/12/2003	1.10E+01
2003	9	13	9/13/2003	1.00E+01
2003	9	14	9/14/2003	1.17E+01
2003	9	15	9/15/2003	1.36E+01
2003	9	16	9/16/2003	1.11E+01
2003	9	17	9/17/2003	9.35E+00

2003	9	18	9/18/2003	8.23E+00
2003	9	19	9/19/2003	7.34E+00
2003	9	20	9/20/2003	6.58E+00
2003	9	21	9/21/2003	6.26E+00
2003	9	22	9/22/2003	5.92E+00
2003	9	23	9/23/2003	7.43E+00
2003	9	24	9/24/2003	1.04E+01
2003	9	25	9/25/2003	8.13E+00
2003	9	26	9/26/2003	8.98E+00
2003	9	27	9/27/2003	1.19E+01
2003	9	28	9/28/2003	9.51E+00
2003	9	29	9/29/2003	7.79E+00
2003	9	30	9/30/2003	6.89E+00
2003	10	1	10/1/2003	6.31E+00
2003	10	2	10/2/2003	5.80E+00
2003	10	3	10/3/2003	5.37E+00
2003	10	4	10/4/2003	5.00E+00
2003	10	5	10/5/2003	4.58E+00
2003	10	6	10/6/2003	4.16E+00
2003	10	7	10/7/2003	7.67E+00
2003	10	8	10/8/2003	4.88E+01
2003	10	9	10/9/2003	8.75E+01
2003	10	10	10/10/2003	3.05E+01
2003	10	11	10/11/2003	2.58E+01
2003	10	12	10/12/2003	2.92E+01
2003	10	13	10/13/2003	2.95E+01
2003	10	14	10/14/2003	2.76E+01
2003	10	15	10/15/2003	2.36E+01
2003	10	16	10/16/2003	2.13E+01
2003	10	17	10/17/2003	2.03E+01
2003	10	18	10/18/2003	1.93E+01
2003	10	19	10/19/2003	1.74E+01
2003	10	20	10/20/2003	1.58E+01
2003	10	21	10/21/2003	1.44E+01
2003	10	22	10/22/2003	1.32E+01
2003	10	23	10/23/2003	1.20E+01
2003	10	24	10/24/2003	1.11E+01
2003	10	25	10/25/2003	1.06E+01
2003	10	26	10/26/2003	1.11E+01
2003	10	27	10/27/2003	1.08E+01
2003	10	28	10/28/2003	1.52E+01
2003	10	29	10/29/2003	7.50E+01
2003	10	30	10/30/2003	3.75E+01
2003	10	31	10/31/2003	2.85E+01
2003	11	1	11/1/2003	2.62E+01
2003	11	2	11/2/2003	2.41E+01
2003	11	3	11/3/2003	2.31E+01
2003	11	4	11/4/2003	2.19E+01
2003	11	5	11/5/2003	1.94E+01
2003	11	6	11/6/2003	1.79E+01
2003	11	7	11/7/2003	1.67E+01
2003	11	8	11/8/2003	1.58E+01
2003	11	9	11/9/2003	1.58E+01
2003	11	10	11/10/2003	1.52E+01
2003	11	11	11/11/2003	1.33E+01
2003	11	12	11/12/2003	1.20E+01
2003	11	13	11/13/2003	1.09E+01
2003	11	14	11/14/2003	1.02E+01

2003	11	15	11/15/2003	9.55E+00
2003	11	16	11/16/2003	8.90E+00
2003	11	17	11/17/2003	8.27E+00
2003	11	18	11/18/2003	7.67E+00
2003	11	19	11/19/2003	9.98E+00
2003	11	20	11/20/2003	1.17E+01
2003	11	21	11/21/2003	1.03E+01
2003	11	22	11/22/2003	9.30E+00
2003	11	23	11/23/2003	8.61E+00
2003	11	24	11/24/2003	8.23E+00
2003	11	25	11/25/2003	8.33E+00
2003	11	26	11/26/2003	7.70E+00
2003	11	27	11/27/2003	7.23E+00
2003	11	28	11/28/2003	7.56E+00
2003	11	29	11/29/2003	8.57E+00
2003	11	30	11/30/2003	7.79E+00
2003	12	1	12/1/2003	7.15E+00
2003	12	2	12/2/2003	6.70E+00
2003	12	3	12/3/2003	6.41E+00
2003	12	4	12/4/2003	1.57E+01
2003	12	5	12/5/2003	1.81E+01
2003	12	6	12/6/2003	1.70E+01
2003	12	7	12/7/2003	1.43E+01
2003	12	8	12/8/2003	1.29E+01
2003	12	9	12/9/2003	1.21E+01
2003	12	10	12/10/2003	1.32E+01
2003	12	11	12/11/2003	1.61E+01
2003	12	12	12/12/2003	1.45E+01
2003	12	13	12/13/2003	1.36E+01
2003	12	14	12/14/2003	2.57E+01
2003	12	15	12/15/2003	2.90E+01
2003	12	16	12/16/2003	2.22E+01
2003	12	17	12/17/2003	2.06E+01
2003	12	18	12/18/2003	1.94E+01
2003	12	19	12/19/2003	1.78E+01
2003	12	20	12/20/2003	1.68E+01
2003	12	21	12/21/2003	1.61E+01
2003	12	22	12/22/2003	1.55E+01
2003	12	23	12/23/2003	1.46E+01
2003	12	24	12/24/2003	1.47E+01
2003	12	25	12/25/2003	1.48E+01
2003	12	26	12/26/2003	1.42E+01
2003	12	27	12/27/2003	1.31E+01
2003	12	28	12/28/2003	1.23E+01
2003	12	29	12/29/2003	1.18E+01
2003	12	30	12/30/2003	1.16E+01
2003	12	31	12/31/2003	1.13E+01
2004	1	1	1/1/2004	1.03E+01
2004	1	2	1/2/2004	8.99E+00
2004	1	3	1/3/2004	8.25E+00
2004	1	4	1/4/2004	7.68E+00
2004	1	5	1/5/2004	7.20E+00
2004	1	6	1/6/2004	6.94E+00
2004	1	7	1/7/2004	6.75E+00
2004	1	8	1/8/2004	6.37E+00
2004	1	9	1/9/2004	7.07E+00
2004	1	10	1/10/2004	1.13E+01
2004	1	11	1/11/2004	1.15E+01

2004	1	12	1/12/2004	9.74E+00
2004	1	13	1/13/2004	8.69E+00
2004	1	14	1/14/2004	8.09E+00
2004	1	15	1/15/2004	7.56E+00
2004	1	16	1/16/2004	7.13E+00
2004	1	17	1/17/2004	6.97E+00
2004	1	18	1/18/2004	7.16E+00
2004	1	19	1/19/2004	6.90E+00
2004	1	20	1/20/2004	6.58E+00
2004	1	21	1/21/2004	5.94E+00
2004	1	22	1/22/2004	5.54E+00
2004	1	23	1/23/2004	5.25E+00
2004	1	24	1/24/2004	4.97E+00
2004	1	25	1/25/2004	4.73E+00
2004	1	26	1/26/2004	5.46E+00
2004	1	27	1/27/2004	1.02E+01
2004	1	28	1/28/2004	9.68E+00
2004	1	29	1/29/2004	8.33E+00
2004	1	30	1/30/2004	7.57E+00
2004	1	31	1/31/2004	7.06E+00
2004	2	1	2/1/2004	1.13E+01
2004	2	2	2/2/2004	1.52E+01
2004	2	3	2/3/2004	1.68E+01
2004	2	4	2/4/2004	1.45E+01
2004	2	5	2/5/2004	1.31E+01
2004	2	6	2/6/2004	1.77E+01
2004	2	7	2/7/2004	7.00E+01
2004	2	8	2/8/2004	3.49E+01
2004	2	9	2/9/2004	2.77E+01
2004	2	10	2/10/2004	2.79E+01
2004	2	11	2/11/2004	2.90E+01
2004	2	12	2/12/2004	3.59E+01
2004	2	13	2/13/2004	3.90E+01
2004	2	14	2/14/2004	5.75E+01
2004	2	15	2/15/2004	7.71E+01
2004	2	16	2/16/2004	7.45E+01
2004	2	17	2/17/2004	7.61E+01
2004	2	18	2/18/2004	6.51E+01
2004	2	19	2/19/2004	5.24E+01
2004	2	20	2/20/2004	4.64E+01
2004	2	21	2/21/2004	4.23E+01
2004	2	22	2/22/2004	3.87E+01
2004	2	23	2/23/2004	3.64E+01
2004	2	24	2/24/2004	5.86E+01
2004	2	25	2/25/2004	1.01E+02
2004	2	26	2/26/2004	5.81E+02
2004	2	27	2/27/2004	1.86E+02
2004	2	28	2/28/2004	1.47E+02
2004	2	29	2/29/2004	1.31E+02
2004	3	1	3/1/2004	1.24E+02
2004	3	2	3/2/2004	1.09E+02
2004	3	3	3/3/2004	9.33E+01
2004	3	4	3/4/2004	8.22E+01
2004	3	5	3/5/2004	7.31E+01
2004	3	6	3/6/2004	6.76E+01
2004	3	7	3/7/2004	5.99E+01
2004	3	8	3/8/2004	5.06E+01
2004	3	9	3/9/2004	4.51E+01

2004	3	10	3/10/2004	4.82E+01
2004	3	11	3/11/2004	4.49E+01
2004	3	12	3/12/2004	3.73E+01
2004	3	13	3/13/2004	3.30E+01
2004	3	14	3/14/2004	2.98E+01
2004	3	15	3/15/2004	2.66E+01
2004	3	16	3/16/2004	6.50E+01
2004	3	17	3/17/2004	6.06E+01
2004	3	18	3/18/2004	4.72E+01
2004	3	19	3/19/2004	4.16E+01
2004	3	20	3/20/2004	3.74E+01
2004	3	21	3/21/2004	3.37E+01
2004	3	22	3/22/2004	3.02E+01
2004	3	23	3/23/2004	2.71E+01
2004	3	24	3/24/2004	2.42E+01
2004	3	25	3/25/2004	2.16E+01
2004	3	26	3/26/2004	1.93E+01
2004	3	27	3/27/2004	1.71E+01
2004	3	28	3/28/2004	1.52E+01
2004	3	29	3/29/2004	1.35E+01
2004	3	30	3/30/2004	1.22E+01
2004	3	31	3/31/2004	1.11E+01
2004	4	1	4/1/2004	9.66E+00
2004	4	2	4/2/2004	8.36E+00
2004	4	3	4/3/2004	7.18E+00
2004	4	4	4/4/2004	6.10E+00
2004	4	5	4/5/2004	5.37E+00
2004	4	6	4/6/2004	4.77E+00
2004	4	7	4/7/2004	4.19E+00
2004	4	8	4/8/2004	6.50E+00
2004	4	9	4/9/2004	1.19E+01
2004	4	10	4/10/2004	9.69E+00
2004	4	11	4/11/2004	7.77E+00
2004	4	12	4/12/2004	6.77E+00
2004	4	13	4/13/2004	6.60E+00
2004	4	14	4/14/2004	5.93E+00
2004	4	15	4/15/2004	5.33E+00
2004	4	16	4/16/2004	4.71E+00
2004	4	17	4/17/2004	4.08E+00
2004	4	18	4/18/2004	3.49E+00
2004	4	19	4/19/2004	2.94E+00
2004	4	20	4/20/2004	2.46E+00
2004	4	21	4/21/2004	2.04E+00
2004	4	22	4/22/2004	1.63E+00
2004	4	23	4/23/2004	1.24E+00
2004	4	24	4/24/2004	9.00E-01
2004	4	25	4/25/2004	6.73E-01
2004	4	26	4/26/2004	7.05E-01
2004	4	27	4/27/2004	1.20E+00
2004	4	28	4/28/2004	1.17E+00
2004	4	29	4/29/2004	9.66E-01
2004	4	30	4/30/2004	4.73E+00
2004	5	1	5/1/2004	1.37E+01
2004	5	2	5/2/2004	1.40E+01
2004	5	3	5/3/2004	2.54E+01
2004	5	4	5/4/2004	1.95E+01
2004	5	5	5/5/2004	1.45E+01
2004	5	6	5/6/2004	1.20E+01

2004	5	7	5/7/2004	1.03E+01
2004	5	8	5/8/2004	8.97E+00
2004	5	9	5/9/2004	7.77E+00
2004	5	10	5/10/2004	6.72E+00
2004	5	11	5/11/2004	6.05E+00
2004	5	12	5/12/2004	5.51E+00
2004	5	13	5/13/2004	4.92E+00
2004	5	14	5/14/2004	4.31E+00
2004	5	15	5/15/2004	3.68E+00
2004	5	16	5/16/2004	3.10E+00
2004	5	17	5/17/2004	2.60E+00
2004	5	18	5/18/2004	9.71E+00
2004	5	19	5/19/2004	1.04E+01
2004	5	20	5/20/2004	5.37E+00
2004	5	21	5/21/2004	3.56E+00
2004	5	22	5/22/2004	2.48E+00
2004	5	23	5/23/2004	1.87E+00
2004	5	24	5/24/2004	1.47E+00
2004	5	25	5/25/2004	1.17E+00
2004	5	26	5/26/2004	9.27E-01
2004	5	27	5/27/2004	7.36E-01
2004	5	28	5/28/2004	6.16E-01
2004	5	29	5/29/2004	5.38E-01
2004	5	30	5/30/2004	4.88E-01
2004	5	31	5/31/2004	4.64E-01
2004	6	1	6/1/2004	4.52E-01
2004	6	2	6/2/2004	4.40E-01
2004	6	3	6/3/2004	6.67E-01
2004	6	4	6/4/2004	1.28E+00
2004	6	5	6/5/2004	1.22E+00
2004	6	6	6/6/2004	1.03E+00
2004	6	7	6/7/2004	7.50E-01
2004	6	8	6/8/2004	5.82E-01
2004	6	9	6/9/2004	6.59E-01
2004	6	10	6/10/2004	7.53E-01
2004	6	11	6/11/2004	1.51E+00
2004	6	12	6/12/2004	2.25E+00
2004	6	13	6/13/2004	3.90E+00
2004	6	14	6/14/2004	3.70E+00
2004	6	15	6/15/2004	2.74E+00
2004	6	16	6/16/2004	1.77E+00
2004	6	17	6/17/2004	1.14E+00
2004	6	18	6/18/2004	7.79E-01
2004	6	19	6/19/2004	7.21E+00
2004	6	20	6/20/2004	6.58E+00
2004	6	21	6/21/2004	4.57E+00
2004	6	22	6/22/2004	3.95E+00
2004	6	23	6/23/2004	2.87E+00
2004	6	24	6/24/2004	2.00E+00
2004	6	25	6/25/2004	1.55E+00
2004	6	26	6/26/2004	3.34E+00
2004	6	27	6/27/2004	8.87E+00
2004	6	28	6/28/2004	6.29E+00
2004	6	29	6/29/2004	4.12E+00
2004	6	30	6/30/2004	3.90E+00
2004	7	1	7/1/2004	4.32E+00
2004	7	2	7/2/2004	6.05E+00
2004	7	3	7/3/2004	1.49E+01

2004	7	4	7/4/2004	8.22E+00
2004	7	5	7/5/2004	4.88E+00
2004	7	6	7/6/2004	3.68E+00
2004	7	7	7/7/2004	3.01E+00
2004	7	8	7/8/2004	2.87E+00
2004	7	9	7/9/2004	2.43E+00
2004	7	10	7/10/2004	2.02E+00
2004	7	11	7/11/2004	6.46E+00
2004	7	12	7/12/2004	1.77E+01
2004	7	13	7/13/2004	8.95E+00
2004	7	14	7/14/2004	5.12E+00
2004	7	15	7/15/2004	4.24E+01
2004	7	16	7/16/2004	1.15E+02
2004	7	17	7/17/2004	2.72E+01
2004	7	18	7/18/2004	1.74E+01
2004	7	19	7/19/2004	1.61E+01
2004	7	20	7/20/2004	1.49E+01
2004	7	21	7/21/2004	1.26E+01
2004	7	22	7/22/2004	1.11E+01
2004	7	23	7/23/2004	1.00E+01
2004	7	24	7/24/2004	9.08E+00
2004	7	25	7/25/2004	1.25E+01
2004	7	26	7/26/2004	1.43E+01
2004	7	27	7/27/2004	1.07E+01
2004	7	28	7/28/2004	8.59E+00
2004	7	29	7/29/2004	7.86E+00
2004	7	30	7/30/2004	7.09E+00
2004	7	31	7/31/2004	1.37E+01
2004	8	1	8/1/2004	1.84E+01
2004	8	2	8/2/2004	1.25E+01
2004	8	3	8/3/2004	1.11E+01
2004	8	4	8/4/2004	9.59E+00
2004	8	5	8/5/2004	7.73E+00
2004	8	6	8/6/2004	6.94E+00
2004	8	7	8/7/2004	6.27E+00
2004	8	8	8/8/2004	6.50E+00
2004	8	9	8/9/2004	6.40E+00
2004	8	10	8/10/2004	5.38E+00
2004	8	11	8/11/2004	5.09E+00
2004	8	12	8/12/2004	7.28E+00
2004	8	13	8/13/2004	1.25E+01
2004	8	14	8/14/2004	1.32E+01
2004	8	15	8/15/2004	1.26E+01
2004	8	16	8/16/2004	1.85E+01
2004	8	17	8/17/2004	1.55E+01
2004	8	18	8/18/2004	1.39E+01
2004	8	19	8/19/2004	1.12E+01
2004	8	20	8/20/2004	9.49E+00
2004	8	21	8/21/2004	1.08E+01
2004	8	22	8/22/2004	1.19E+01
2004	8	23	8/23/2004	1.60E+01
2004	8	24	8/24/2004	2.80E+01
2004	8	25	8/25/2004	2.32E+01
2004	8	26	8/26/2004	2.46E+01
2004	8	27	8/27/2004	3.35E+01
2004	8	28	8/28/2004	2.95E+01
2004	8	29	8/29/2004	4.82E+01
2004	8	30	8/30/2004	5.87E+01

2004	8	31	8/31/2004	6.12E+01
2004	9	1	9/1/2004	5.31E+01
2004	9	2	9/2/2004	4.79E+01
2004	9	3	9/3/2004	4.49E+01
2004	9	4	9/4/2004	4.14E+01
2004	9	5	9/5/2004	5.07E+01
2004	9	6	9/6/2004	3.24E+02
2004	9	7	9/7/2004	3.56E+02
2004	9	8	9/8/2004	2.81E+02
2004	9	9	9/9/2004	2.53E+02
2004	9	10	9/10/2004	7.57E+02
2004	9	11	9/11/2004	8.35E+02
2004	9	12	9/12/2004	3.39E+02
2004	9	13	9/13/2004	4.53E+02
2004	9	14	9/14/2004	3.78E+02
2004	9	15	9/15/2004	3.27E+02
2004	9	16	9/16/2004	2.98E+02
2004	9	17	9/17/2004	2.57E+02
2004	9	18	9/18/2004	2.18E+02
2004	9	19	9/19/2004	1.98E+02
2004	9	20	9/20/2004	1.85E+02
2004	9	21	9/21/2004	1.66E+02
2004	9	22	9/22/2004	1.32E+02
2004	9	23	9/23/2004	1.04E+02
2004	9	24	9/24/2004	9.66E+01
2004	9	25	9/25/2004	9.03E+01
2004	9	26	9/26/2004	9.24E+01
2004	9	27	9/27/2004	1.28E+02
2004	9	28	9/28/2004	1.13E+02
2004	9	29	9/29/2004	9.38E+01
2004	9	30	9/30/2004	8.21E+01
2004	10	1	10/1/2004	7.02E+01
2004	10	2	10/2/2004	6.10E+01
2004	10	3	10/3/2004	5.82E+01
2004	10	4	10/4/2004	5.89E+01
2004	10	5	10/5/2004	4.99E+01
2004	10	6	10/6/2004	4.41E+01
2004	10	7	10/7/2004	3.89E+01
2004	10	8	10/8/2004	3.44E+01
2004	10	9	10/9/2004	3.06E+01
2004	10	10	10/10/2004	2.84E+01
2004	10	11	10/11/2004	5.48E+02
2004	10	12	10/12/2004	1.24E+02
2004	10	13	10/13/2004	7.46E+01
2004	10	14	10/14/2004	6.76E+01
2004	10	15	10/15/2004	1.01E+02
2004	10	16	10/16/2004	1.07E+02
2004	10	17	10/17/2004	9.03E+01
2004	10	18	10/18/2004	8.44E+01
2004	10	19	10/19/2004	7.71E+01
2004	10	20	10/20/2004	6.59E+01
2004	10	21	10/21/2004	5.89E+01
2004	10	22	10/22/2004	5.34E+01
2004	10	23	10/23/2004	4.58E+01
2004	10	24	10/24/2004	4.27E+01
2004	10	25	10/25/2004	3.95E+01
2004	10	26	10/26/2004	3.30E+01
2004	10	27	10/27/2004	2.88E+01

2004	10	28	10/28/2004	2.60E+01
2004	10	29	10/29/2004	2.37E+01
2004	10	30	10/30/2004	2.11E+01
2004	10	31	10/31/2004	1.83E+01
2004	11	1	11/1/2004	1.63E+01
2004	11	2	11/2/2004	1.46E+01
2004	11	3	11/3/2004	1.30E+01
2004	11	4	11/4/2004	1.17E+01
2004	11	5	11/5/2004	1.07E+01
2004	11	6	11/6/2004	9.53E+00
2004	11	7	11/7/2004	8.50E+00
2004	11	8	11/8/2004	7.55E+00
2004	11	9	11/9/2004	6.73E+00
2004	11	10	11/10/2004	6.17E+00
2004	11	11	11/11/2004	6.30E+00
2004	11	12	11/12/2004	5.70E+00
2004	11	13	11/13/2004	5.43E+00
2004	11	14	11/14/2004	5.16E+00
2004	11	15	11/15/2004	4.82E+00
2004	11	16	11/16/2004	4.39E+00
2004	11	17	11/17/2004	3.95E+00
2004	11	18	11/18/2004	3.55E+00
2004	11	19	11/19/2004	3.17E+00
2004	11	20	11/20/2004	2.86E+00
2004	11	21	11/21/2004	2.55E+00
2004	11	22	11/22/2004	2.28E+00
2004	11	23	11/23/2004	2.03E+00
2004	11	24	11/24/2004	4.14E+00
2004	11	25	11/25/2004	2.86E+01
2004	11	26	11/26/2004	2.42E+01
2004	11	27	11/27/2004	3.34E+01
2004	11	28	11/28/2004	1.09E+02
2004	11	29	11/29/2004	4.82E+01
2004	11	30	11/30/2004	3.76E+01
2004	12	1	12/1/2004	3.60E+01
2004	12	2	12/2/2004	3.45E+01
2004	12	3	12/3/2004	3.11E+01
2004	12	4	12/4/2004	2.99E+01
2004	12	5	12/5/2004	2.85E+01
2004	12	6	12/6/2004	2.49E+01
2004	12	7	12/7/2004	2.22E+01
2004	12	8	12/8/2004	2.11E+01
2004	12	9	12/9/2004	2.02E+01
2004	12	10	12/10/2004	1.94E+01
2004	12	11	12/11/2004	1.96E+01
2004	12	12	12/12/2004	1.87E+01
2004	12	13	12/13/2004	1.74E+01
2004	12	14	12/14/2004	1.63E+01
2004	12	15	12/15/2004	1.52E+01
2004	12	16	12/16/2004	1.44E+01
2004	12	17	12/17/2004	1.37E+01
2004	12	18	12/18/2004	1.25E+01
2004	12	19	12/19/2004	1.15E+01
2004	12	20	12/20/2004	1.08E+01
2004	12	21	12/21/2004	1.02E+01
2004	12	22	12/22/2004	9.65E+00
2004	12	23	12/23/2004	9.10E+00
2004	12	24	12/24/2004	9.39E+00

2004	12	25	12/25/2004	1.36E+01
2004	12	26	12/26/2004	6.01E+01
2004	12	27	12/27/2004	8.17E+01
2004	12	28	12/28/2004	7.17E+01
2004	12	29	12/29/2004	6.64E+01
2004	12	30	12/30/2004	6.19E+01
2004	12	31	12/31/2004	5.80E+01
2005	1	1	1/1/2005	5.24E+01
2005	1	2	1/2/2005	4.47E+01
2005	1	3	1/3/2005	3.91E+01
2005	1	4	1/4/2005	3.59E+01
2005	1	5	1/5/2005	3.33E+01
2005	1	6	1/6/2005	3.04E+01
2005	1	7	1/7/2005	2.76E+01
2005	1	8	1/8/2005	2.54E+01
2005	1	9	1/9/2005	2.36E+01
2005	1	10	1/10/2005	2.27E+01
2005	1	11	1/11/2005	2.09E+01
2005	1	12	1/12/2005	1.87E+01
2005	1	13	1/13/2005	1.73E+01
2005	1	14	1/14/2005	4.14E+01
2005	1	15	1/15/2005	4.63E+01
2005	1	16	1/16/2005	3.89E+01
2005	1	17	1/17/2005	3.34E+01
2005	1	18	1/18/2005	2.97E+01
2005	1	19	1/19/2005	2.73E+01
2005	1	20	1/20/2005	2.48E+01
2005	1	21	1/21/2005	2.23E+01
2005	1	22	1/22/2005	2.11E+01
2005	1	23	1/23/2005	2.04E+01
2005	1	24	1/24/2005	1.82E+01
2005	1	25	1/25/2005	1.66E+01
2005	1	26	1/26/2005	1.52E+01
2005	1	27	1/27/2005	1.41E+01
2005	1	28	1/28/2005	1.40E+01
2005	1	29	1/29/2005	1.72E+01
2005	1	30	1/30/2005	3.67E+01
2005	1	31	1/31/2005	3.69E+01
2005	2	1	2/1/2005	3.41E+01
2005	2	2	2/2/2005	4.03E+01
2005	2	3	2/3/2005	5.63E+01
2005	2	4	2/4/2005	6.20E+01
2005	2	5	2/5/2005	5.25E+01
2005	2	6	2/6/2005	4.62E+01
2005	2	7	2/7/2005	4.18E+01
2005	2	8	2/8/2005	3.77E+01
2005	2	9	2/9/2005	3.48E+01
2005	2	10	2/10/2005	3.20E+01
2005	2	11	2/11/2005	2.81E+01
2005	2	12	2/12/2005	2.56E+01
2005	2	13	2/13/2005	2.34E+01
2005	2	14	2/14/2005	2.30E+01
2005	2	15	2/15/2005	2.27E+01
2005	2	16	2/16/2005	2.02E+01
2005	2	17	2/17/2005	1.82E+01
2005	2	18	2/18/2005	1.62E+01
2005	2	19	2/19/2005	1.49E+01
2005	2	20	2/20/2005	1.37E+01

2005	2	21	2/21/2005	1.26E+01
2005	2	22	2/22/2005	1.18E+01
2005	2	23	2/23/2005	1.13E+01
2005	2	24	2/24/2005	1.54E+01
2005	2	25	2/25/2005	2.65E+01
2005	2	26	2/26/2005	3.03E+01
2005	2	27	2/27/2005	9.64E+02
2005	2	28	2/28/2005	1.09E+03
2005	3	1	3/1/2005	1.91E+02
2005	3	2	3/2/2005	1.67E+02
2005	3	3	3/3/2005	1.61E+02
2005	3	4	3/4/2005	1.41E+02
2005	3	5	3/5/2005	1.19E+02
2005	3	6	3/6/2005	1.04E+02
2005	3	7	3/7/2005	9.17E+01
2005	3	8	3/8/2005	1.78E+02
2005	3	9	3/9/2005	1.31E+02
2005	3	10	3/10/2005	1.10E+02
2005	3	11	3/11/2005	9.23E+01
2005	3	12	3/12/2005	7.99E+01
2005	3	13	3/13/2005	6.77E+01
2005	3	14	3/14/2005	6.40E+01
2005	3	15	3/15/2005	7.81E+01
2005	3	16	3/16/2005	1.27E+02
2005	3	17	3/17/2005	1.69E+02
2005	3	18	3/18/2005	1.51E+02
2005	3	19	3/19/2005	1.25E+02
2005	3	20	3/20/2005	1.04E+02
2005	3	21	3/21/2005	9.61E+01
2005	3	22	3/22/2005	9.82E+01
2005	3	23	3/23/2005	1.13E+02
2005	3	24	3/24/2005	9.24E+01
2005	3	25	3/25/2005	9.15E+01
2005	3	26	3/26/2005	9.26E+01
2005	3	27	3/27/2005	6.07E+02
2005	3	28	3/28/2005	4.24E+02
2005	3	29	3/29/2005	1.92E+02
2005	3	30	3/30/2005	1.69E+02
2005	3	31	3/31/2005	1.66E+02
2005	4	1	4/1/2005	3.39E+02
2005	4	2	4/2/2005	9.34E+02
2005	4	3	4/3/2005	3.34E+02
2005	4	4	4/4/2005	2.75E+02
2005	4	5	4/5/2005	2.38E+02
2005	4	6	4/6/2005	2.04E+02
2005	4	7	4/7/2005	4.93E+02
2005	4	8	4/8/2005	3.94E+02
2005	4	9	4/9/2005	2.58E+02
2005	4	10	4/10/2005	2.19E+02
2005	4	11	4/11/2005	1.85E+02
2005	4	12	4/12/2005	1.67E+02
2005	4	13	4/13/2005	1.64E+02
2005	4	14	4/14/2005	1.50E+02
2005	4	15	4/15/2005	1.24E+02
2005	4	16	4/16/2005	9.81E+01
2005	4	17	4/17/2005	8.39E+01
2005	4	18	4/18/2005	7.16E+01
2005	4	19	4/19/2005	6.13E+01

2005	4	20	4/20/2005	5.28E+01
2005	4	21	4/21/2005	4.53E+01
2005	4	22	4/22/2005	4.13E+01
2005	4	23	4/23/2005	5.87E+01
2005	4	24	4/24/2005	4.46E+01
2005	4	25	4/25/2005	3.68E+01
2005	4	26	4/26/2005	3.47E+01
2005	4	27	4/27/2005	3.65E+01
2005	4	28	4/28/2005	3.04E+01
2005	4	29	4/29/2005	2.60E+01
2005	4	30	4/30/2005	2.45E+01
2005	5	1	5/1/2005	3.38E+01
2005	5	2	5/2/2005	3.55E+01
2005	5	3	5/3/2005	2.75E+01
2005	5	4	5/4/2005	2.36E+01
2005	5	5	5/5/2005	7.60E+01
2005	5	6	5/6/2005	8.11E+01
2005	5	7	5/7/2005	5.17E+01
2005	5	8	5/8/2005	4.16E+01
2005	5	9	5/9/2005	3.57E+01
2005	5	10	5/10/2005	3.13E+01
2005	5	11	5/11/2005	3.21E+01
2005	5	12	5/12/2005	2.89E+01
2005	5	13	5/13/2005	2.52E+01
2005	5	14	5/14/2005	2.19E+01
2005	5	15	5/15/2005	1.88E+01
2005	5	16	5/16/2005	1.63E+01
2005	5	17	5/17/2005	1.47E+01
2005	5	18	5/18/2005	1.62E+01
2005	5	19	5/19/2005	1.47E+01
2005	5	20	5/20/2005	1.68E+01
2005	5	21	5/21/2005	1.46E+02
2005	5	22	5/22/2005	6.33E+01
2005	5	23	5/23/2005	4.28E+01
2005	5	24	5/24/2005	3.79E+01
2005	5	25	5/25/2005	3.34E+01
2005	5	26	5/26/2005	2.95E+01
2005	5	27	5/27/2005	2.57E+01
2005	5	28	5/28/2005	2.22E+01
2005	5	29	5/29/2005	1.92E+01
2005	5	30	5/30/2005	1.72E+01
2005	5	31	5/31/2005	1.92E+01
2005	6	1	6/1/2005	2.17E+01
2005	6	2	6/2/2005	1.83E+01
2005	6	3	6/3/2005	1.95E+01
2005	6	4	6/4/2005	1.76E+01
2005	6	5	6/5/2005	1.50E+01
2005	6	6	6/6/2005	1.29E+01
2005	6	7	6/7/2005	1.10E+01
2005	6	8	6/8/2005	9.35E+00
2005	6	9	6/9/2005	7.93E+00
2005	6	10	6/10/2005	6.88E+00
2005	6	11	6/11/2005	6.22E+00
2005	6	12	6/12/2005	7.26E+00
2005	6	13	6/13/2005	6.77E+00
2005	6	14	6/14/2005	5.96E+00
2005	6	15	6/15/2005	5.33E+00
2005	6	16	6/16/2005	4.43E+00

2005	6	17	6/17/2005	3.58E+00
2005	6	18	6/18/2005	3.05E+00
2005	6	19	6/19/2005	3.18E+00
2005	6	20	6/20/2005	2.56E+00
2005	6	21	6/21/2005	1.97E+00
2005	6	22	6/22/2005	1.42E+00
2005	6	23	6/23/2005	1.07E+00
2005	6	24	6/24/2005	8.83E-01
2005	6	25	6/25/2005	7.03E+00
2005	6	26	6/26/2005	9.30E+00
2005	6	27	6/27/2005	6.45E+00
2005	6	28	6/28/2005	2.03E+01
2005	6	29	6/29/2005	1.17E+02
2005	6	30	6/30/2005	8.32E+02
2005	7	1	7/1/2005	1.04E+03
2005	7	2	7/2/2005	1.05E+03
2005	7	3	7/3/2005	2.62E+02
2005	7	4	7/4/2005	2.65E+02
2005	7	5	7/5/2005	2.08E+02
2005	7	6	7/6/2005	1.80E+02
2005	7	7	7/7/2005	1.57E+02
2005	7	8	7/8/2005	1.36E+02
2005	7	9	7/9/2005	1.24E+02
2005	7	10	7/10/2005	1.24E+02
2005	7	11	7/11/2005	1.06E+02
2005	7	12	7/12/2005	8.28E+01
2005	7	13	7/13/2005	6.79E+01
2005	7	14	7/14/2005	5.95E+01
2005	7	15	7/15/2005	5.25E+01
2005	7	16	7/16/2005	4.57E+01
2005	7	17	7/17/2005	3.91E+01
2005	7	18	7/18/2005	3.35E+01
2005	7	19	7/19/2005	2.88E+01
2005	7	20	7/20/2005	2.49E+01
2005	7	21	7/21/2005	2.13E+01
2005	7	22	7/22/2005	1.82E+01
2005	7	23	7/23/2005	1.75E+01
2005	7	24	7/24/2005	1.73E+01
2005	7	25	7/25/2005	1.40E+01
2005	7	26	7/26/2005	1.17E+01
2005	7	27	7/27/2005	9.90E+00
2005	7	28	7/28/2005	8.30E+00
2005	7	29	7/29/2005	6.89E+00
2005	7	30	7/30/2005	5.81E+00
2005	7	31	7/31/2005	1.34E+01
2005	8	1	8/1/2005	1.77E+01
2005	8	2	8/2/2005	1.53E+01
2005	8	3	8/3/2005	1.28E+01
2005	8	4	8/4/2005	1.04E+01
2005	8	5	8/5/2005	1.16E+01
2005	8	6	8/6/2005	1.18E+01
2005	8	7	8/7/2005	1.33E+01
2005	8	8	8/8/2005	1.55E+01
2005	8	9	8/9/2005	1.22E+01
2005	8	10	8/10/2005	1.01E+01
2005	8	11	8/11/2005	8.65E+00
2005	8	12	8/12/2005	7.97E+00
2005	8	13	8/13/2005	6.82E+00

2005	8	14	8/14/2005	5.90E+00
2005	8	15	8/15/2005	5.26E+00
2005	8	16	8/16/2005	4.70E+00
2005	8	17	8/17/2005	4.07E+00
2005	8	18	8/18/2005	3.64E+01
2005	8	19	8/19/2005	1.69E+02
2005	8	20	8/20/2005	4.50E+01
2005	8	21	8/21/2005	2.99E+01
2005	8	22	8/22/2005	2.67E+01
2005	8	23	8/23/2005	2.45E+01
2005	8	24	8/24/2005	2.21E+01
2005	8	25	8/25/2005	2.37E+01
2005	8	26	8/26/2005	8.53E+02
2005	8	27	8/27/2005	4.36E+02
2005	8	28	8/28/2005	1.48E+02
2005	8	29	8/29/2005	1.29E+02
2005	8	30	8/30/2005	1.24E+02
2005	8	31	8/31/2005	1.13E+02
2005	9	1	9/1/2005	9.75E+01
2005	9	2	9/2/2005	8.65E+01
2005	9	3	9/3/2005	7.73E+01
2005	9	4	9/4/2005	7.10E+01
2005	9	5	9/5/2005	6.70E+01
2005	9	6	9/6/2005	7.91E+01
2005	9	7	9/7/2005	1.05E+02
2005	9	8	9/8/2005	9.59E+01
2005	9	9	9/9/2005	8.47E+01
2005	9	10	9/10/2005	7.38E+01
2005	9	11	9/11/2005	6.47E+01
2005	9	12	9/12/2005	5.80E+01
2005	9	13	9/13/2005	5.10E+01
2005	9	14	9/14/2005	4.48E+01
2005	9	15	9/15/2005	3.97E+01
2005	9	16	9/16/2005	3.56E+01
2005	9	17	9/17/2005	3.24E+01
2005	9	18	9/18/2005	2.92E+01
2005	9	19	9/19/2005	2.55E+01
2005	9	20	9/20/2005	2.24E+01
2005	9	21	9/21/2005	3.63E+01
2005	9	22	9/22/2005	5.32E+01
2005	9	23	9/23/2005	3.87E+01
2005	9	24	9/24/2005	3.31E+01
2005	9	25	9/25/2005	3.01E+01
2005	9	26	9/26/2005	2.74E+01
2005	9	27	9/27/2005	2.48E+01
2005	9	28	9/28/2005	2.29E+01
2005	9	29	9/29/2005	2.08E+01
2005	9	30	9/30/2005	1.86E+01
2005	10	1	10/1/2005	2.03E+01
2005	10	2	10/2/2005	4.35E+01
2005	10	3	10/3/2005	1.98E+02
2005	10	4	10/4/2005	2.17E+03
2005	10	5	10/5/2005	5.35E+03
2005	10	6	10/6/2005	3.36E+03
2005	10	7	10/7/2005	6.75E+03
2005	10	8	10/8/2005	1.38E+03
2005	10	9	10/9/2005	1.04E+03
2005	10	10	10/10/2005	8.98E+02

2005	10	11	10/11/2005	7.70E+02
2005	10	12	10/12/2005	6.60E+02
2005	10	13	10/13/2005	5.64E+02
2005	10	14	10/14/2005	4.67E+02
2005	10	15	10/15/2005	3.90E+02
2005	10	16	10/16/2005	3.30E+02
2005	10	17	10/17/2005	2.79E+02
2005	10	18	10/18/2005	2.34E+02
2005	10	19	10/19/2005	1.96E+02
2005	10	20	10/20/2005	1.64E+02
2005	10	21	10/21/2005	1.43E+02
2005	10	22	10/22/2005	1.35E+02
2005	10	23	10/23/2005	1.27E+02
2005	10	24	10/24/2005	3.60E+02
2005	10	25	10/25/2005	2.02E+02
2005	10	26	10/26/2005	1.72E+02
2005	10	27	10/27/2005	1.54E+02
2005	10	28	10/28/2005	1.35E+02
2005	10	29	10/29/2005	1.14E+02
2005	10	30	10/30/2005	9.67E+01
2005	10	31	10/31/2005	8.17E+01
2005	11	1	11/1/2005	6.98E+01
2005	11	2	11/2/2005	6.00E+01
2005	11	3	11/3/2005	5.06E+01
2005	11	4	11/4/2005	4.38E+01
2005	11	5	11/5/2005	3.85E+01
2005	11	6	11/6/2005	3.33E+01
2005	11	7	11/7/2005	2.89E+01
2005	11	8	11/8/2005	2.51E+01
2005	11	9	11/9/2005	2.12E+01
2005	11	10	11/10/2005	1.84E+01
2005	11	11	11/11/2005	1.62E+01
2005	11	12	11/12/2005	1.42E+01
2005	11	13	11/13/2005	1.24E+01
2005	11	14	11/14/2005	1.07E+01
2005	11	15	11/15/2005	9.13E+00
2005	11	16	11/16/2005	7.76E+00
2005	11	17	11/17/2005	6.65E+00
2005	11	18	11/18/2005	5.80E+00
2005	11	19	11/19/2005	5.30E+00
2005	11	20	11/20/2005	4.93E+00
2005	11	21	11/21/2005	1.38E+01
2005	11	22	11/22/2005	1.87E+01
2005	11	23	11/23/2005	1.73E+01
2005	11	24	11/24/2005	1.54E+01
2005	11	25	11/25/2005	1.36E+01
2005	11	26	11/26/2005	1.23E+01
2005	11	27	11/27/2005	1.13E+01
2005	11	28	11/28/2005	1.18E+01
2005	11	29	11/29/2005	1.70E+01
2005	11	30	11/30/2005	1.88E+01
2005	12	1	12/1/2005	1.75E+01
2005	12	2	12/2/2005	1.60E+01
2005	12	3	12/3/2005	1.47E+01
2005	12	4	12/4/2005	1.35E+01
2005	12	5	12/5/2005	1.32E+01
2005	12	6	12/6/2005	1.61E+01
2005	12	7	12/7/2005	1.67E+01

2005	12	8	12/8/2005	3.81E+01
2005	12	9	12/9/2005	2.85E+02
2005	12	10	12/10/2005	1.66E+02
2005	12	11	12/11/2005	1.48E+02
2005	12	12	12/12/2005	1.36E+02
2005	12	13	12/13/2005	1.23E+02
2005	12	14	12/14/2005	1.12E+02
2005	12	15	12/15/2005	1.05E+02
2005	12	16	12/16/2005	9.79E+01
2005	12	17	12/17/2005	1.32E+02
2005	12	18	12/18/2005	4.56E+02
2005	12	19	12/19/2005	2.51E+02
2005	12	20	12/20/2005	2.24E+02
2005	12	21	12/21/2005	2.03E+02
2005	12	22	12/22/2005	1.84E+02
2005	12	23	12/23/2005	1.66E+02
2005	12	24	12/24/2005	1.50E+02
2005	12	25	12/25/2005	1.51E+02
2005	12	26	12/26/2005	1.49E+02
2005	12	27	12/27/2005	1.34E+02
2005	12	28	12/28/2005	1.20E+02
2005	12	29	12/29/2005	1.08E+02
2005	12	30	12/30/2005	9.76E+01
2005	12	31	12/31/2005	8.87E+01
2006	1	1	1/1/2006	8.05E+01
2006	1	2	1/2/2006	5.37E+02
2006	1	3	1/3/2006	4.21E+02
2006	1	4	1/4/2006	1.98E+02
2006	1	5	1/5/2006	1.80E+02
2006	1	6	1/6/2006	1.64E+02
2006	1	7	1/7/2006	1.48E+02
2006	1	8	1/8/2006	1.31E+02
2006	1	9	1/9/2006	1.15E+02
2006	1	10	1/10/2006	1.03E+02
2006	1	11	1/11/2006	9.18E+01
2006	1	12	1/12/2006	8.06E+01
2006	1	13	1/13/2006	9.08E+01
2006	1	14	1/14/2006	1.42E+02
2006	1	15	1/15/2006	1.06E+02
2006	1	16	1/16/2006	9.36E+01
2006	1	17	1/17/2006	8.38E+01
2006	1	18	1/18/2006	7.44E+01
2006	1	19	1/19/2006	6.46E+01
2006	1	20	1/20/2006	5.74E+01
2006	1	21	1/21/2006	5.06E+01
2006	1	22	1/22/2006	4.72E+01
2006	1	23	1/23/2006	4.29E+01
2006	1	24	1/24/2006	3.60E+01
2006	1	25	1/25/2006	3.15E+01
2006	1	26	1/26/2006	2.74E+01
2006	1	27	1/27/2006	2.44E+01
2006	1	28	1/28/2006	2.18E+01
2006	1	29	1/29/2006	2.10E+01
2006	1	30	1/30/2006	2.18E+01
2006	1	31	1/31/2006	2.32E+01
2006	2	1	2/1/2006	2.16E+01
2006	2	2	2/2/2006	2.05E+02
2006	2	3	2/3/2006	1.29E+03

2006	2	4	2/4/2006	1.25E+03
2006	2	5	2/5/2006	2.56E+02
2006	2	6	2/6/2006	2.20E+02
2006	2	7	2/7/2006	2.08E+02
2006	2	8	2/8/2006	1.84E+02
2006	2	9	2/9/2006	1.60E+02
2006	2	10	2/10/2006	1.42E+02
2006	2	11	2/11/2006	1.37E+02
2006	2	12	2/12/2006	1.32E+02
2006	2	13	2/13/2006	1.14E+02
2006	2	14	2/14/2006	9.88E+01
2006	2	15	2/15/2006	8.51E+01
2006	2	16	2/16/2006	7.26E+01
2006	2	17	2/17/2006	6.26E+01
2006	2	18	2/18/2006	5.57E+01
2006	2	19	2/19/2006	5.73E+01
2006	2	20	2/20/2006	5.68E+01
2006	2	21	2/21/2006	5.05E+01
2006	2	22	2/22/2006	4.14E+01
2006	2	23	2/23/2006	3.88E+01
2006	2	24	2/24/2006	3.76E+01
2006	2	25	2/25/2006	3.74E+01
2006	2	26	2/26/2006	7.18E+01
2006	2	27	2/27/2006	6.62E+01
2006	2	28	2/28/2006	5.50E+01
2006	3	1	3/1/2006	4.77E+01
2006	3	2	3/2/2006	4.19E+01
2006	3	3	3/3/2006	3.70E+01
2006	3	4	3/4/2006	3.29E+01
2006	3	5	3/5/2006	2.95E+01
2006	3	6	3/6/2006	2.63E+01
2006	3	7	3/7/2006	2.33E+01
2006	3	8	3/8/2006	2.07E+01
2006	3	9	3/9/2006	1.84E+01
2006	3	10	3/10/2006	1.66E+01
2006	3	11	3/11/2006	1.51E+01
2006	3	12	3/12/2006	1.33E+01
2006	3	13	3/13/2006	1.15E+01
2006	3	14	3/14/2006	1.03E+01
2006	3	15	3/15/2006	9.15E+00
2006	3	16	3/16/2006	8.00E+00
2006	3	17	3/17/2006	6.98E+00
2006	3	18	3/18/2006	6.06E+00
2006	3	19	3/19/2006	5.51E+00
2006	3	20	3/20/2006	5.11E+00
2006	3	21	3/21/2006	4.89E+00
2006	3	22	3/22/2006	4.72E+00
2006	3	23	3/23/2006	4.89E+00
2006	3	24	3/24/2006	7.40E+00
2006	3	25	3/25/2006	7.59E+00
2006	3	26	3/26/2006	6.78E+00
2006	3	27	3/27/2006	5.94E+00
2006	3	28	3/28/2006	5.33E+00
2006	3	29	3/29/2006	4.78E+00
2006	3	30	3/30/2006	4.22E+00
2006	3	31	3/31/2006	3.62E+00
2006	4	1	4/1/2006	2.98E+00
2006	4	2	4/2/2006	2.41E+00

2006	4	3	4/3/2006	1.89E+00
2006	4	4	4/4/2006	1.41E+00
2006	4	5	4/5/2006	1.01E+00
2006	4	6	4/6/2006	7.29E-01
2006	4	7	4/7/2006	5.77E-01
2006	4	8	4/8/2006	1.88E+00
2006	4	9	4/9/2006	8.39E+00
2006	4	10	4/10/2006	6.68E+00
2006	4	11	4/11/2006	5.03E+00
2006	4	12	4/12/2006	4.08E+00
2006	4	13	4/13/2006	3.40E+00
2006	4	14	4/14/2006	2.86E+00
2006	4	15	4/15/2006	2.37E+00
2006	4	16	4/16/2006	1.91E+00
2006	4	17	4/17/2006	1.50E+00
2006	4	18	4/18/2006	1.16E+00
2006	4	19	4/19/2006	1.01E+00
2006	4	20	4/20/2006	1.10E+00
2006	4	21	4/21/2006	9.51E-01
2006	4	22	4/22/2006	8.02E-01
2006	4	23	4/23/2006	6.98E-01
2006	4	24	4/24/2006	5.84E-01
2006	4	25	4/25/2006	5.05E-01
2006	4	26	4/26/2006	7.75E-01
2006	4	27	4/27/2006	1.24E+00
2006	4	28	4/28/2006	1.19E+00
2006	4	29	4/29/2006	9.54E-01
2006	4	30	4/30/2006	7.28E-01
2006	5	1	5/1/2006	5.83E-01
2006	5	2	5/2/2006	4.88E-01
2006	5	3	5/3/2006	4.32E-01
2006	5	4	5/4/2006	4.00E-01
2006	5	5	5/5/2006	7.45E-01
2006	5	6	5/6/2006	1.65E+00
2006	5	7	5/7/2006	1.68E+00
2006	5	8	5/8/2006	1.85E+00
2006	5	9	5/9/2006	2.38E+00
2006	5	10	5/10/2006	2.65E+00
2006	5	11	5/11/2006	6.50E+00
2006	5	12	5/12/2006	5.12E+00
2006	5	13	5/13/2006	3.71E+00
2006	5	14	5/14/2006	2.66E+00
2006	5	15	5/15/2006	2.05E+00
2006	5	16	5/16/2006	1.69E+00
2006	5	17	5/17/2006	1.34E+00
2006	5	18	5/18/2006	1.04E+00
2006	5	19	5/19/2006	7.85E-01
2006	5	20	5/20/2006	6.09E-01
2006	5	21	5/21/2006	4.94E-01
2006	5	22	5/22/2006	4.28E-01
2006	5	23	5/23/2006	3.95E-01
2006	5	24	5/24/2006	3.80E-01
2006	5	25	5/25/2006	4.50E-01
2006	5	26	5/26/2006	4.28E-01
2006	5	27	5/27/2006	3.99E-01
2006	5	28	5/28/2006	3.83E-01
2006	5	29	5/29/2006	3.72E-01
2006	5	30	5/30/2006	3.59E-01

2006	5	31	5/31/2006	3.54E-01
2006	6	1	6/1/2006	3.55E-01
2006	6	2	6/2/2006	2.02E+00
2006	6	3	6/3/2006	3.09E+00
2006	6	4	6/4/2006	2.91E+00
2006	6	5	6/5/2006	1.98E+00
2006	6	6	6/6/2006	1.22E+00
2006	6	7	6/7/2006	7.68E-01
2006	6	8	6/8/2006	5.51E-01
2006	6	9	6/9/2006	4.44E-01
2006	6	10	6/10/2006	3.90E-01
2006	6	11	6/11/2006	4.10E-01
2006	6	12	6/12/2006	5.45E-01
2006	6	13	6/13/2006	1.73E+01
2006	6	14	6/14/2006	1.47E+01
2006	6	15	6/15/2006	6.50E+00
2006	6	16	6/16/2006	4.16E+00
2006	6	17	6/17/2006	2.91E+00
2006	6	18	6/18/2006	2.14E+00
2006	6	19	6/19/2006	1.70E+00
2006	6	20	6/20/2006	1.38E+00
2006	6	21	6/21/2006	1.13E+00
2006	6	22	6/22/2006	9.47E-01
2006	6	23	6/23/2006	8.16E-01
2006	6	24	6/24/2006	7.21E-01
2006	6	25	6/25/2006	2.99E+00
2006	6	26	6/26/2006	4.26E+00
2006	6	27	6/27/2006	4.98E+00
2006	6	28	6/28/2006	6.87E+00
2006	6	29	6/29/2006	6.62E+00
2006	6	30	6/30/2006	5.54E+00
2006	7	1	7/1/2006	3.92E+00
2006	7	2	7/2/2006	2.75E+00
2006	7	3	7/3/2006	2.00E+00
2006	7	4	7/4/2006	1.50E+00
2006	7	5	7/5/2006	1.18E+00
2006	7	6	7/6/2006	1.67E+00
2006	7	7	7/7/2006	4.19E+00
2006	7	8	7/8/2006	3.78E+00
2006	7	9	7/9/2006	2.77E+00
2006	7	10	7/10/2006	1.99E+00
2006	7	11	7/11/2006	1.47E+00
2006	7	12	7/12/2006	1.17E+00
2006	7	13	7/13/2006	9.65E-01
2006	7	14	7/14/2006	8.20E-01
2006	7	15	7/15/2006	7.19E-01
2006	7	16	7/16/2006	6.54E-01
2006	7	17	7/17/2006	6.05E-01
2006	7	18	7/18/2006	5.52E-01
2006	7	19	7/19/2006	4.97E-01
2006	7	20	7/20/2006	4.50E-01
2006	7	21	7/21/2006	4.12E-01
2006	7	22	7/22/2006	3.85E-01
2006	7	23	7/23/2006	4.85E-01
2006	7	24	7/24/2006	5.89E-01
2006	7	25	7/25/2006	5.26E-01
2006	7	26	7/26/2006	4.89E-01
2006	7	27	7/27/2006	4.34E-01

2006	7	28	7/28/2006	3.93E-01
2006	7	29	7/29/2006	3.75E-01
2006	7	30	7/30/2006	4.39E-01
2006	7	31	7/31/2006	7.24E-01
2006	8	1	8/1/2006	8.44E-01
2006	8	2	8/2/2006	9.60E-01
2006	8	3	8/3/2006	7.39E-01
2006	8	4	8/4/2006	6.96E-01
2006	8	5	8/5/2006	9.40E-01
2006	8	6	8/6/2006	7.28E-01
2006	8	7	8/7/2006	5.76E-01
2006	8	8	8/8/2006	4.73E-01
2006	8	9	8/9/2006	4.11E-01
2006	8	10	8/10/2006	3.76E-01
2006	8	11	8/11/2006	1.23E+00
2006	8	12	8/12/2006	2.74E+00
2006	8	13	8/13/2006	3.96E+00
2006	8	14	8/14/2006	4.09E+00
2006	8	15	8/15/2006	3.16E+00
2006	8	16	8/16/2006	2.06E+00
2006	8	17	8/17/2006	1.33E+00
2006	8	18	8/18/2006	9.22E-01
2006	8	19	8/19/2006	2.56E+00
2006	8	20	8/20/2006	3.64E+00
2006	8	21	8/21/2006	2.74E+00
2006	8	22	8/22/2006	1.78E+00
2006	8	23	8/23/2006	5.18E+00
2006	8	24	8/24/2006	3.47E+01
2006	8	25	8/25/2006	4.35E+01
2006	8	26	8/26/2006	1.99E+01
2006	8	27	8/27/2006	1.20E+01
2006	8	28	8/28/2006	9.49E+00
2006	8	29	8/29/2006	8.14E+00
2006	8	30	8/30/2006	7.27E+00
2006	8	31	8/31/2006	1.57E+01
2006	9	1	9/1/2006	2.36E+01
2006	9	2	9/2/2006	1.52E+01
2006	9	3	9/3/2006	1.15E+01
2006	9	4	9/4/2006	9.45E+00
2006	9	5	9/5/2006	8.19E+00
2006	9	6	9/6/2006	7.71E+00
2006	9	7	9/7/2006	9.31E+00
2006	9	8	9/8/2006	1.12E+01
2006	9	9	9/9/2006	8.68E+00
2006	9	10	9/10/2006	6.78E+00
2006	9	11	9/11/2006	5.82E+00
2006	9	12	9/12/2006	1.24E+01
2006	9	13	9/13/2006	1.43E+01
2006	9	14	9/14/2006	9.51E+00
2006	9	15	9/15/2006	6.95E+00
2006	9	16	9/16/2006	5.99E+00
2006	9	17	9/17/2006	5.54E+00
2006	9	18	9/18/2006	5.09E+00
2006	9	19	9/19/2006	1.45E+01
2006	9	20	9/20/2006	2.53E+01
2006	9	21	9/21/2006	1.30E+01
2006	9	22	9/22/2006	8.69E+00
2006	9	23	9/23/2006	7.20E+00

2006	9	24	9/24/2006	6.35E+00
2006	9	25	9/25/2006	5.80E+00
2006	9	26	9/26/2006	5.45E+00
2006	9	27	9/27/2006	5.07E+00
2006	9	28	9/28/2006	4.60E+00
2006	9	29	9/29/2006	4.14E+00
2006	9	30	9/30/2006	3.70E+00
2006	10	1	10/1/2006	3.27E+00
2006	10	2	10/2/2006	2.88E+00
2006	10	3	10/3/2006	2.56E+00
2006	10	4	10/4/2006	2.30E+00
2006	10	5	10/5/2006	2.06E+00
2006	10	6	10/6/2006	1.86E+00
2006	10	7	10/7/2006	1.71E+00
2006	10	8	10/8/2006	1.60E+00
2006	10	9	10/9/2006	1.51E+00
2006	10	10	10/10/2006	1.44E+00
2006	10	11	10/11/2006	1.34E+00
2006	10	12	10/12/2006	1.24E+00
2006	10	13	10/13/2006	1.14E+00
2006	10	14	10/14/2006	1.07E+00
2006	10	15	10/15/2006	9.96E-01
2006	10	16	10/16/2006	9.41E-01
2006	10	17	10/17/2006	9.03E-01
2006	10	18	10/18/2006	2.29E+00
2006	10	19	10/19/2006	2.95E+00
2006	10	20	10/20/2006	2.61E+00
2006	10	21	10/21/2006	2.07E+00
2006	10	22	10/22/2006	1.60E+00
2006	10	23	10/23/2006	1.29E+00
2006	10	24	10/24/2006	1.09E+00
2006	10	25	10/25/2006	9.74E-01
2006	10	26	10/26/2006	8.98E-01
2006	10	27	10/27/2006	1.57E+00
2006	10	28	10/28/2006	1.33E+01
2006	10	29	10/29/2006	8.68E+00
2006	10	30	10/30/2006	5.20E+00
2006	10	31	10/31/2006	3.95E+00
2006	11	1	11/1/2006	3.13E+00
2006	11	2	11/2/2006	2.64E+00
2006	11	3	11/3/2006	2.32E+00
2006	11	4	11/4/2006	2.07E+00
2006	11	5	11/5/2006	1.88E+00
2006	11	6	11/6/2006	1.88E+00
2006	11	7	11/7/2006	1.79E+00
2006	11	8	11/8/2006	1.76E+00
2006	11	9	11/9/2006	1.59E+00
2006	11	10	11/10/2006	1.42E+00
2006	11	11	11/11/2006	1.27E+00
2006	11	12	11/12/2006	1.15E+00
2006	11	13	11/13/2006	1.07E+00
2006	11	14	11/14/2006	1.01E+00
2006	11	15	11/15/2006	9.63E-01
2006	11	16	11/16/2006	4.63E+00
2006	11	17	11/17/2006	4.66E+00
2006	11	18	11/18/2006	3.73E+00
2006	11	19	11/19/2006	2.86E+00
2006	11	20	11/20/2006	2.31E+00

2006	11	21	11/21/2006	2.15E+00
2006	11	22	11/22/2006	2.62E+00
2006	11	23	11/23/2006	2.46E+00
2006	11	24	11/24/2006	2.19E+00
2006	11	25	11/25/2006	1.95E+00
2006	11	26	11/26/2006	1.75E+00
2006	11	27	11/27/2006	1.63E+00
2006	11	28	11/28/2006	1.52E+00
2006	11	29	11/29/2006	1.39E+00
2006	11	30	11/30/2006	2.21E+00
2006	12	1	12/1/2006	2.66E+00
2006	12	2	12/2/2006	2.63E+00
2006	12	3	12/3/2006	2.63E+00
2006	12	4	12/4/2006	2.46E+00
2006	12	5	12/5/2006	2.19E+00
2006	12	6	12/6/2006	1.96E+00
2006	12	7	12/7/2006	1.80E+00
2006	12	8	12/8/2006	1.68E+00
2006	12	9	12/9/2006	1.57E+00
2006	12	10	12/10/2006	1.46E+00
2006	12	11	12/11/2006	1.36E+00
2006	12	12	12/12/2006	1.26E+00
2006	12	13	12/13/2006	1.32E+00
2006	12	14	12/14/2006	1.45E+00
2006	12	15	12/15/2006	1.39E+00
2006	12	16	12/16/2006	1.28E+00
2006	12	17	12/17/2006	1.17E+00
2006	12	18	12/18/2006	1.12E+00
2006	12	19	12/19/2006	1.07E+00
2006	12	20	12/20/2006	1.62E+00
2006	12	21	12/21/2006	1.02E+01
2006	12	22	12/22/2006	1.25E+01
2006	12	23	12/23/2006	1.95E+01
2006	12	24	12/24/2006	1.51E+01
2006	12	25	12/25/2006	2.23E+01
2006	12	26	12/26/2006	2.42E+01
2006	12	27	12/27/2006	2.07E+01
2006	12	28	12/28/2006	1.91E+01
2006	12	29	12/29/2006	1.79E+01
2006	12	30	12/30/2006	1.79E+01
2006	12	31	12/31/2006	1.83E+01
2007	1	1	1/1/2007	2.81E+01
2007	1	2	1/2/2007	2.81E+01
2007	1	3	1/3/2007	2.45E+01
2007	1	4	1/4/2007	2.28E+01
2007	1	5	1/5/2007	2.65E+01
2007	1	6	1/6/2007	6.29E+01
2007	1	7	1/7/2007	3.43E+01
2007	1	8	1/8/2007	2.90E+01
2007	1	9	1/9/2007	2.84E+01
2007	1	10	1/10/2007	2.64E+01
2007	1	11	1/11/2007	2.50E+01
2007	1	12	1/12/2007	2.35E+01
2007	1	13	1/13/2007	2.19E+01
2007	1	14	1/14/2007	2.03E+01
2007	1	15	1/15/2007	1.88E+01
2007	1	16	1/16/2007	1.75E+01
2007	1	17	1/17/2007	1.75E+01

2007	1	18	1/18/2007	1.86E+01
2007	1	19	1/19/2007	1.74E+01
2007	1	20	1/20/2007	1.53E+01
2007	1	21	1/21/2007	1.32E+01
2007	1	22	1/22/2007	1.61E+01
2007	1	23	1/23/2007	2.06E+01
2007	1	24	1/24/2007	1.88E+01
2007	1	25	1/25/2007	1.70E+01
2007	1	26	1/26/2007	1.46E+01
2007	1	27	1/27/2007	1.29E+01
2007	1	28	1/28/2007	4.07E+01
2007	1	29	1/29/2007	3.88E+01
2007	1	30	1/30/2007	3.20E+01
2007	1	31	1/31/2007	2.96E+01
2007	2	1	2/1/2007	3.77E+01
2007	2	2	2/2/2007	1.04E+02
2007	2	3	2/3/2007	6.40E+01
2007	2	4	2/4/2007	5.79E+01
2007	2	5	2/5/2007	5.35E+01
2007	2	6	2/6/2007	4.70E+01
2007	2	7	2/7/2007	4.14E+01
2007	2	8	2/8/2007	3.72E+01
2007	2	9	2/9/2007	3.44E+01
2007	2	10	2/10/2007	3.22E+01
2007	2	11	2/11/2007	2.92E+01
2007	2	12	2/12/2007	2.64E+01
2007	2	13	2/13/2007	2.74E+01
2007	2	14	2/14/2007	4.20E+01
2007	2	15	2/15/2007	3.40E+01
2007	2	16	2/16/2007	2.94E+01
2007	2	17	2/17/2007	2.60E+01
2007	2	18	2/18/2007	2.36E+01
2007	2	19	2/19/2007	2.16E+01
2007	2	20	2/20/2007	1.99E+01
2007	2	21	2/21/2007	1.96E+01
2007	2	22	2/22/2007	2.18E+01
2007	2	23	2/23/2007	1.93E+01
2007	2	24	2/24/2007	1.76E+01
2007	2	25	2/25/2007	1.64E+01
2007	2	26	2/26/2007	1.55E+01
2007	2	27	2/27/2007	1.38E+01
2007	2	28	2/28/2007	1.24E+01
2007	3	1	3/1/2007	2.24E+01
2007	3	2	3/2/2007	4.00E+01
2007	3	3	3/3/2007	3.32E+01
2007	3	4	3/4/2007	2.82E+01
2007	3	5	3/5/2007	2.52E+01
2007	3	6	3/6/2007	2.30E+01
2007	3	7	3/7/2007	2.09E+01
2007	3	8	3/8/2007	1.90E+01
2007	3	9	3/9/2007	1.77E+01
2007	3	10	3/10/2007	1.64E+01
2007	3	11	3/11/2007	1.47E+01
2007	3	12	3/12/2007	1.31E+01
2007	3	13	3/13/2007	1.18E+01
2007	3	14	3/14/2007	1.07E+01
2007	3	15	3/15/2007	9.79E+00
2007	3	16	3/16/2007	1.58E+01

2007	3	17	3/17/2007	1.44E+01
2007	3	18	3/18/2007	1.23E+01
2007	3	19	3/19/2007	1.09E+01
2007	3	20	3/20/2007	9.78E+00
2007	3	21	3/21/2007	8.86E+00
2007	3	22	3/22/2007	7.99E+00
2007	3	23	3/23/2007	7.10E+00
2007	3	24	3/24/2007	6.25E+00
2007	3	25	3/25/2007	5.59E+00
2007	3	26	3/26/2007	5.11E+00
2007	3	27	3/27/2007	4.66E+00
2007	3	28	3/28/2007	4.13E+00
2007	3	29	3/29/2007	3.58E+00
2007	3	30	3/30/2007	3.11E+00
2007	3	31	3/31/2007	2.73E+00
2007	4	1	4/1/2007	2.38E+00
2007	4	2	4/2/2007	2.02E+00
2007	4	3	4/3/2007	1.68E+00
2007	4	4	4/4/2007	1.36E+00
2007	4	5	4/5/2007	1.07E+00
2007	4	6	4/6/2007	8.21E-01
2007	4	7	4/7/2007	6.56E-01
2007	4	8	4/8/2007	5.53E-01
2007	4	9	4/9/2007	5.00E-01
2007	4	10	4/10/2007	4.73E-01
2007	4	11	4/11/2007	4.47E-01
2007	4	12	4/12/2007	4.18E-01
2007	4	13	4/13/2007	3.96E-01
2007	4	14	4/14/2007	4.16E-01
2007	4	15	4/15/2007	2.51E+00
2007	4	16	4/16/2007	3.46E+00
2007	4	17	4/17/2007	2.83E+00
2007	4	18	4/18/2007	2.03E+00
2007	4	19	4/19/2007	1.43E+00
2007	4	20	4/20/2007	1.00E+00
2007	4	21	4/21/2007	7.38E-01
2007	4	22	4/22/2007	5.79E-01
2007	4	23	4/23/2007	4.82E-01
2007	4	24	4/24/2007	4.27E-01
2007	4	25	4/25/2007	3.98E-01
2007	4	26	4/26/2007	3.82E-01
2007	4	27	4/27/2007	3.91E-01
2007	4	28	4/28/2007	3.95E-01
2007	4	29	4/29/2007	3.82E-01
2007	4	30	4/30/2007	3.69E-01
2007	5	1	5/1/2007	3.61E-01
2007	5	2	5/2/2007	3.60E-01
2007	5	3	5/3/2007	3.63E-01
2007	5	4	5/4/2007	3.63E-01
2007	5	5	5/5/2007	3.67E-01
2007	5	6	5/6/2007	3.80E-01
2007	5	7	5/7/2007	3.82E-01
2007	5	8	5/8/2007	3.75E-01
2007	5	9	5/9/2007	7.98E-01
2007	5	10	5/10/2007	1.73E+00
2007	5	11	5/11/2007	1.53E+00
2007	5	12	5/12/2007	1.13E+00
2007	5	13	5/13/2007	7.93E-01

2007	5	14	5/14/2007	5.97E-01
2007	5	15	5/15/2007	5.06E-01
2007	5	16	5/16/2007	4.32E-01
2007	5	17	5/17/2007	4.53E-01
2007	5	18	5/18/2007	9.77E-01
2007	5	19	5/19/2007	8.45E-01
2007	5	20	5/20/2007	6.80E-01
2007	5	21	5/21/2007	5.43E-01
2007	5	22	5/22/2007	4.55E-01
2007	5	23	5/23/2007	4.77E-01
2007	5	24	5/24/2007	4.97E-01
2007	5	25	5/25/2007	1.01E+00
2007	5	26	5/26/2007	9.15E-01
2007	5	27	5/27/2007	7.24E-01
2007	5	28	5/28/2007	5.74E-01
2007	5	29	5/29/2007	4.73E-01
2007	5	30	5/30/2007	4.10E-01
2007	5	31	5/31/2007	3.79E-01
2007	6	1	6/1/2007	3.71E-01
2007	6	2	6/2/2007	2.05E+01
2007	6	3	6/3/2007	2.40E+01
2007	6	4	6/4/2007	9.75E+00
2007	6	5	6/5/2007	5.45E+00
2007	6	6	6/6/2007	4.16E+00
2007	6	7	6/7/2007	3.42E+00
2007	6	8	6/8/2007	2.75E+00
2007	6	9	6/9/2007	2.24E+00
2007	6	10	6/10/2007	1.83E+00
2007	6	11	6/11/2007	1.52E+00
2007	6	12	6/12/2007	3.45E+00
2007	6	13	6/13/2007	4.56E+00
2007	6	14	6/14/2007	3.58E+00
2007	6	15	6/15/2007	2.52E+00
2007	6	16	6/16/2007	1.80E+00
2007	6	17	6/17/2007	1.37E+00
2007	6	18	6/18/2007	1.12E+00
2007	6	19	6/19/2007	9.76E-01
2007	6	20	6/20/2007	9.45E-01
2007	6	21	6/21/2007	2.42E+00
2007	6	22	6/22/2007	2.69E+00
2007	6	23	6/23/2007	2.02E+00
2007	6	24	6/24/2007	1.40E+00
2007	6	25	6/25/2007	9.96E-01
2007	6	26	6/26/2007	7.75E-01
2007	6	27	6/27/2007	6.83E-01
2007	6	28	6/28/2007	6.03E-01
2007	6	29	6/29/2007	5.29E-01
2007	6	30	6/30/2007	4.67E-01
2007	7	1	7/1/2007	8.17E-01
2007	7	2	7/2/2007	7.10E+00
2007	7	3	7/3/2007	1.38E+01
2007	7	4	7/4/2007	6.49E+00
2007	7	5	7/5/2007	3.87E+00
2007	7	6	7/6/2007	2.60E+00
2007	7	7	7/7/2007	1.95E+00
2007	7	8	7/8/2007	1.45E+00
2007	7	9	7/9/2007	1.01E+00
2007	7	10	7/10/2007	7.64E-01

2007	7	11	7/11/2007	6.32E-01
2007	7	12	7/12/2007	5.42E-01
2007	7	13	7/13/2007	8.63E-01
2007	7	14	7/14/2007	1.39E+00
2007	7	15	7/15/2007	1.40E+00
2007	7	16	7/16/2007	1.10E+00
2007	7	17	7/17/2007	8.69E-01
2007	7	18	7/18/2007	6.39E-01
2007	7	19	7/19/2007	5.07E-01
2007	7	20	7/20/2007	7.07E-01
2007	7	21	7/21/2007	1.53E+00
2007	7	22	7/22/2007	1.26E+00
2007	7	23	7/23/2007	9.03E-01
2007	7	24	7/24/2007	6.86E-01
2007	7	25	7/25/2007	2.96E+00
2007	7	26	7/26/2007	2.87E+00
2007	7	27	7/27/2007	2.67E+00
2007	7	28	7/28/2007	2.31E+00
2007	7	29	7/29/2007	4.91E+00
2007	7	30	7/30/2007	1.19E+01
2007	7	31	7/31/2007	1.68E+01
2007	8	1	8/1/2007	7.66E+00
2007	8	2	8/2/2007	6.31E+00
2007	8	3	8/3/2007	3.37E+01
2007	8	4	8/4/2007	3.52E+01
2007	8	5	8/5/2007	1.89E+01
2007	8	6	8/6/2007	1.46E+01
2007	8	7	8/7/2007	1.28E+01
2007	8	8	8/8/2007	1.13E+01
2007	8	9	8/9/2007	1.01E+01
2007	8	10	8/10/2007	9.03E+00
2007	8	11	8/11/2007	8.96E+00
2007	8	12	8/12/2007	1.15E+01
2007	8	13	8/13/2007	8.62E+00
2007	8	14	8/14/2007	6.62E+00
2007	8	15	8/15/2007	5.61E+00
2007	8	16	8/16/2007	4.96E+00
2007	8	17	8/17/2007	4.43E+00
2007	8	18	8/18/2007	3.92E+00
2007	8	19	8/19/2007	3.36E+00
2007	8	20	8/20/2007	2.83E+00
2007	8	21	8/21/2007	2.38E+00
2007	8	22	8/22/2007	2.04E+00
2007	8	23	8/23/2007	1.77E+00
2007	8	24	8/24/2007	1.55E+00
2007	8	25	8/25/2007	2.42E+00
2007	8	26	8/26/2007	3.22E+00
2007	8	27	8/27/2007	2.68E+00
2007	8	28	8/28/2007	2.56E+00
2007	8	29	8/29/2007	2.50E+00
2007	8	30	8/30/2007	1.94E+00
2007	8	31	8/31/2007	7.71E+00
2007	9	1	9/1/2007	1.81E+01
2007	9	2	9/2/2007	1.21E+01
2007	9	3	9/3/2007	6.87E+00
2007	9	4	9/4/2007	5.10E+00
2007	9	5	9/5/2007	4.30E+00
2007	9	6	9/6/2007	3.70E+00

2007	9	7	9/7/2007	3.20E+00
2007	9	8	9/8/2007	2.77E+00
2007	9	9	9/9/2007	2.37E+00
2007	9	10	9/10/2007	2.03E+00
2007	9	11	9/11/2007	1.76E+00
2007	9	12	9/12/2007	1.62E+00
2007	9	13	9/13/2007	1.64E+00
2007	9	14	9/14/2007	4.58E+00
2007	9	15	9/15/2007	4.48E+00
2007	9	16	9/16/2007	3.49E+00
2007	9	17	9/17/2007	2.67E+00
2007	9	18	9/18/2007	2.09E+00
2007	9	19	9/19/2007	1.75E+00
2007	9	20	9/20/2007	9.39E+00
2007	9	21	9/21/2007	1.71E+01
2007	9	22	9/22/2007	1.38E+01
2007	9	23	9/23/2007	8.79E+00
2007	9	24	9/24/2007	6.56E+00
2007	9	25	9/25/2007	5.68E+00
2007	9	26	9/26/2007	5.30E+00
2007	9	27	9/27/2007	4.81E+00
2007	9	28	9/28/2007	4.27E+00
2007	9	29	9/29/2007	3.76E+00
2007	9	30	9/30/2007	3.30E+00
2007	10	1	10/1/2007	2.93E+00
2007	10	2	10/2/2007	3.22E+00
2007	10	3	10/3/2007	5.25E+00
2007	10	4	10/4/2007	7.05E+00
2007	10	5	10/5/2007	7.42E+00
2007	10	6	10/6/2007	6.67E+00
2007	10	7	10/7/2007	5.58E+00
2007	10	8	10/8/2007	5.09E+00
2007	10	9	10/9/2007	4.54E+00
2007	10	10	10/10/2007	4.05E+00
2007	10	11	10/11/2007	3.59E+00
2007	10	12	10/12/2007	3.15E+00
2007	10	13	10/13/2007	2.77E+00
2007	10	14	10/14/2007	2.44E+00
2007	10	15	10/15/2007	2.17E+00
2007	10	16	10/16/2007	1.97E+00
2007	10	17	10/17/2007	1.79E+00
2007	10	18	10/18/2007	1.65E+00
2007	10	19	10/19/2007	3.83E+00
2007	10	20	10/20/2007	4.55E+00
2007	10	21	10/21/2007	4.03E+00
2007	10	22	10/22/2007	3.47E+00
2007	10	23	10/23/2007	2.95E+00
2007	10	24	10/24/2007	4.64E+00
2007	10	25	10/25/2007	6.42E+00
2007	10	26	10/26/2007	1.06E+01
2007	10	27	10/27/2007	9.98E+00
2007	10	28	10/28/2007	7.93E+00
2007	10	29	10/29/2007	6.97E+00
2007	10	30	10/30/2007	6.31E+00
2007	10	31	10/31/2007	5.61E+00
2007	11	1	11/1/2007	5.15E+00
2007	11	2	11/2/2007	4.71E+00
2007	11	3	11/3/2007	4.34E+00

2007	11	4	11/4/2007	3.95E+00
2007	11	5	11/5/2007	3.58E+00
2007	11	6	11/6/2007	3.24E+00
2007	11	7	11/7/2007	2.94E+00
2007	11	8	11/8/2007	2.68E+00
2007	11	9	11/9/2007	2.46E+00
2007	11	10	11/10/2007	2.25E+00
2007	11	11	11/11/2007	2.07E+00
2007	11	12	11/12/2007	1.89E+00
2007	11	13	11/13/2007	1.74E+00
2007	11	14	11/14/2007	1.60E+00
2007	11	15	11/15/2007	1.50E+00
2007	11	16	11/16/2007	1.42E+00
2007	11	17	11/17/2007	1.35E+00
2007	11	18	11/18/2007	1.28E+00
2007	11	19	11/19/2007	1.22E+00
2007	11	20	11/20/2007	1.16E+00
2007	11	21	11/21/2007	1.10E+00
2007	11	22	11/22/2007	1.19E+00
2007	11	23	11/23/2007	1.22E+00
2007	11	24	11/24/2007	1.13E+00
2007	11	25	11/25/2007	1.06E+00
2007	11	26	11/26/2007	1.02E+00
2007	11	27	11/27/2007	9.59E-01
2007	11	28	11/28/2007	9.05E-01
2007	11	29	11/29/2007	8.70E-01
2007	11	30	11/30/2007	8.42E-01
2007	12	1	12/1/2007	8.09E-01
2007	12	2	12/2/2007	7.77E-01
2007	12	3	12/3/2007	8.08E-01
2007	12	4	12/4/2007	8.16E-01
2007	12	5	12/5/2007	7.71E-01
2007	12	6	12/6/2007	7.31E-01
2007	12	7	12/7/2007	7.03E-01
2007	12	8	12/8/2007	7.00E-01
2007	12	9	12/9/2007	6.81E-01
2007	12	10	12/10/2007	6.54E-01
2007	12	11	12/11/2007	6.28E-01
2007	12	12	12/12/2007	6.23E-01
2007	12	13	12/13/2007	6.07E-01
2007	12	14	12/14/2007	5.83E-01
2007	12	15	12/15/2007	6.16E-01
2007	12	16	12/16/2007	6.42E+00
2007	12	17	12/17/2007	6.60E+00
2007	12	18	12/18/2007	4.87E+00
2007	12	19	12/19/2007	3.79E+00
2007	12	20	12/20/2007	3.08E+00
2007	12	21	12/21/2007	7.92E+00
2007	12	22	12/22/2007	8.26E+00
2007	12	23	12/23/2007	6.48E+00
2007	12	24	12/24/2007	5.50E+00
2007	12	25	12/25/2007	5.59E+00
2007	12	26	12/26/2007	5.99E+00
2007	12	27	12/27/2007	5.55E+00
2007	12	28	12/28/2007	5.18E+00
2007	12	29	12/29/2007	4.84E+00
2007	12	30	12/30/2007	4.61E+00
2007	12	31	12/31/2007	9.19E+00